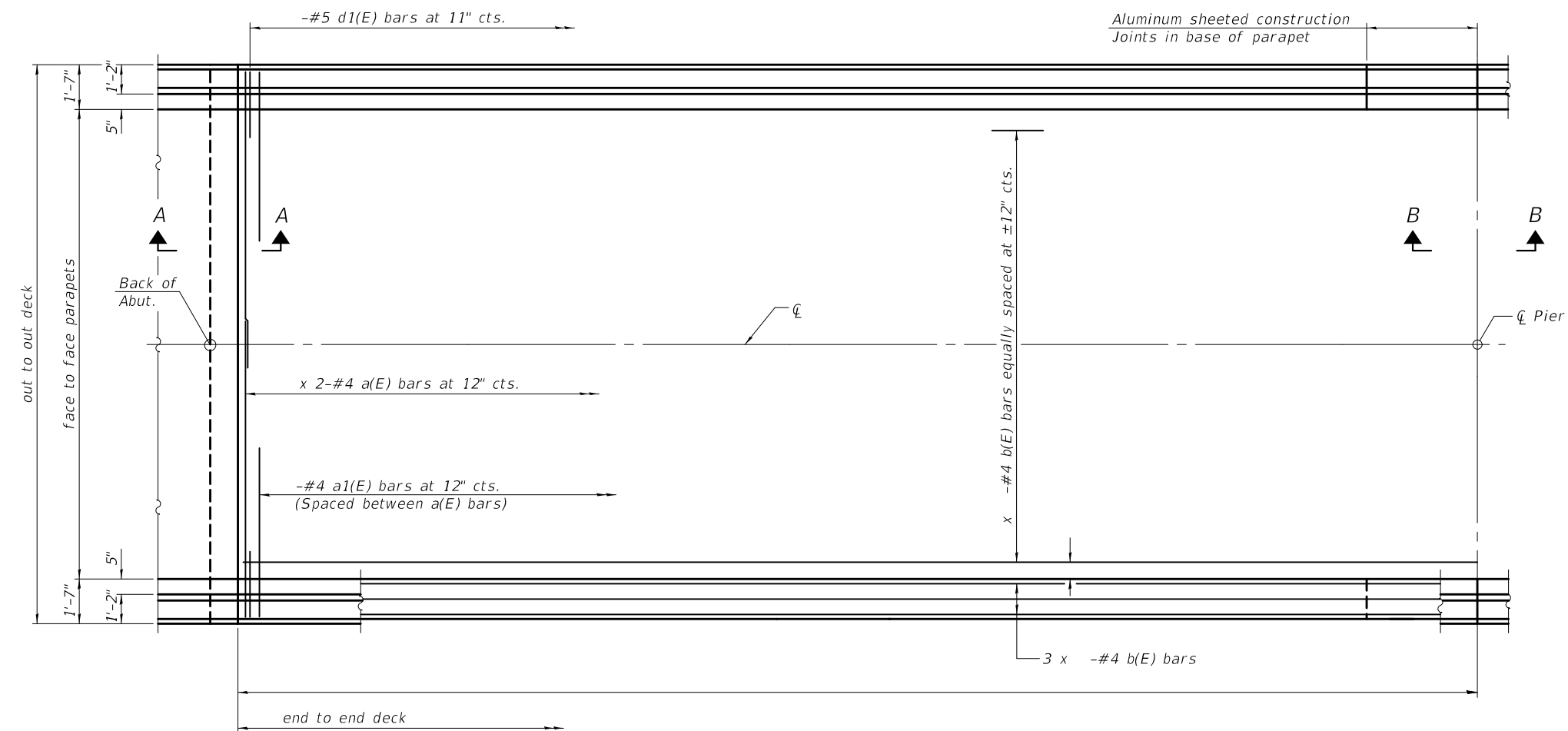
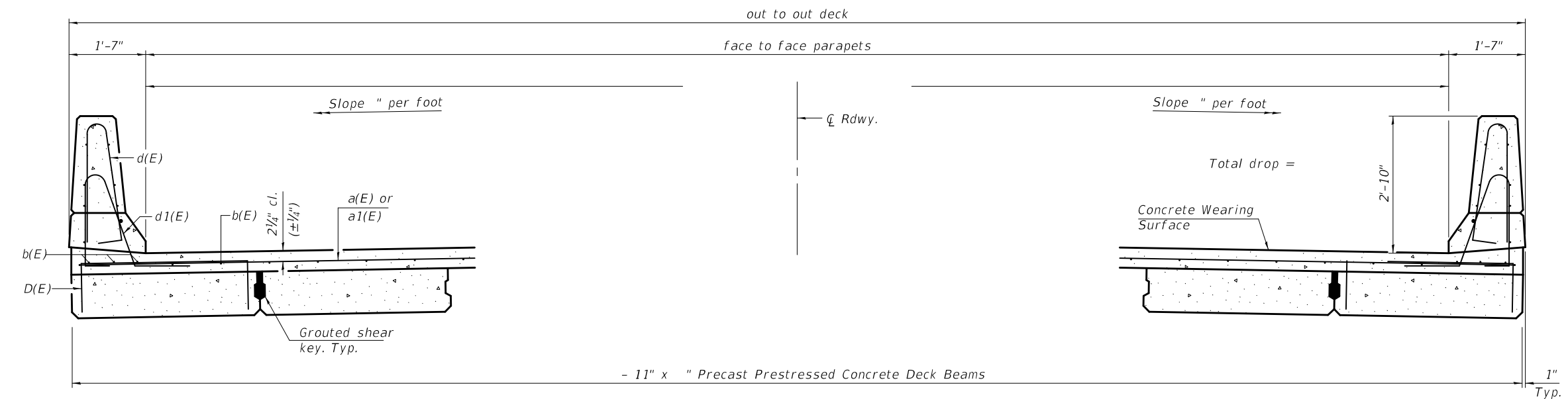


CELL / MODEL NAME	DESCRIPTION	DATE
PDS-11-M-F-0	11" bm super multi span F shape, no skew	2/17/2017
PDS-11-M-F-D	11" bm super multi span F shape details	2/17/2017
PDS-11-M-F-L	11" bm super multi span F shape, ahead left	2/17/2017
PDS-11-M-F-R	11" bm super multi span F shape, ahead right	2/17/2017
PDS-11-S-F-0	11" bm super simple span F shape, no skew	2/17/2017
PDS-11-S-F-D	11" bm super simple span F shape details	2/17/2017
PDS-11-S-F-L	11" bm super simple span F shape, ahead left	2/17/2017
PDS-11-S-F-R	11" bm super simple span F shape, ahead right	2/17/2017
PDS-HMA-11-M-T1-0	11" bm super multi span 6" curb & T-1 Rail, no skew	2/17/2017
PDS-HMA-11-M-T1-D	11" bm super multi span 6" curb & T-1 Rail details	2/17/2017
PDS-HMA-11-M-T1-L	11" bm super multi span 6" curb & T-1 Rail, ahead left	2/17/2017
PDS-HMA-11-M-T1-R	11" bm super multi span 6" curb & T-1 Rail, ahead right	2/17/2017
PDS-HMA-11-S-T1-0	11" bm super simple span 6" curb & T-1 Rail, no skew	2/17/2017
PDS-HMA-11-S-T1-D	11" bm super simple span 6" curb & T-1 Rail details	2/17/2017
PDS-HMA-11-S-T1-L	11" bm super simple span 6" curb & T-1 Rail, ahead left	2/17/2017
PDS-HMA-11-S-T1-R	11" bm super simple span 6" curb & T-1 Rail, ahead right	2/17/2017
PDS-HMA-M-R34-0	17" thru 42" bm super multi span R34 rail (HMA), no skew	2/17/2017
PDS-HMA-M-R34-L	17" thru 42" bm super multi span R34 rail (HMA), ahead left	2/17/2017
PDS-HMA-M-R34-R	17" thru 42" bm super multi span R34 rail (HMA), ahead right	2/17/2017
PDS-HMA-S-R34-0	17" thru 42" bm super simple span R34 rail (HMA), no skew	2/17/2017
PDS-HMA-S-R34-L	17" thru 42" bm super simple span R34 rail (HMA), ahead left	2/17/2017
PDS-HMA-S-R34-R	17" thru 42" bm super simple span R34 rail (HMA), ahead right	2/17/2017
PDS-M-F-0	17" thru 42" bm super multi span F shape, no skew	2/17/2017
PDS-M-F-D	17" thru 42" bm super multi span F shape details	2/17/2017
PDS-M-F-L	17" thru 42" bm super multi span F shape, ahead left	2/17/2017
PDS-M-F-R	17" thru 42" bm super multi span F shape, ahead right	2/17/2017
PDS-M-R34-0	17" thru 42" bm super multi span R34 rail, no skew	2/17/2017
PDS-M-R34-D	17" thru 42" bm super multi span R34 rail details	2/17/2017
PDS-M-R34-L	17" thru 42" bm super multi span R34 rail, ahead left	2/17/2017
PDS-M-R34-R	17" thru 42" bm super multi span R34 rail, ahead right	2/17/2017
PDS-S-F-0	17" thru 42" bm super simple span F shape, no skew	2/17/2017
PDS-S-F-D	17" thru 42" bm super simple span F shape details	2/17/2017
PDS-S-F-L	17" thru 42" bm super simple span F shape, ahead left	2/17/2017

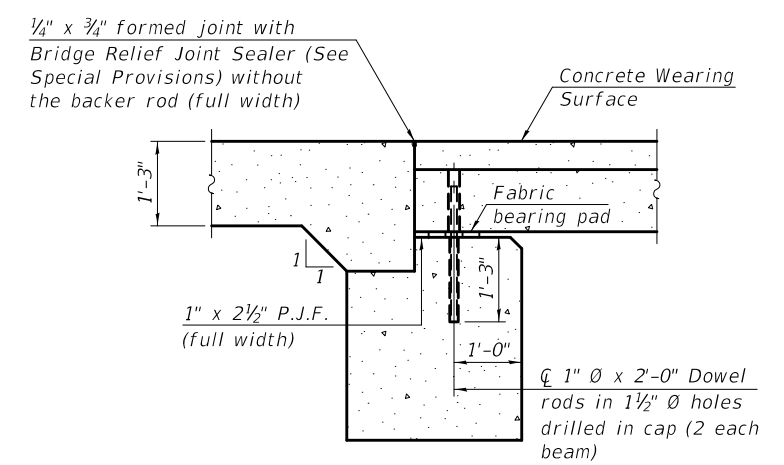
CELL / MODEL NAME	DESCRIPTION	DATE
PDS-S-F-R	17" thru 42" bm super simple span F shape, ahead right	2/17/2017
PDS-S-R34-0	17" thru 42" bm super simple span R34 rail, no skew	2/17/2017
PDS-S-R34-D	17" thru 42" bm super simple span R34 rail details	2/17/2017
PDS-S-R34-L	17" thru 42" bm super simple span R34 rail, ahead left	2/17/2017
PDS-S-R34-R	17" thru 42" bm super simple span R34 rail, ahead right	2/17/2017



PLAN

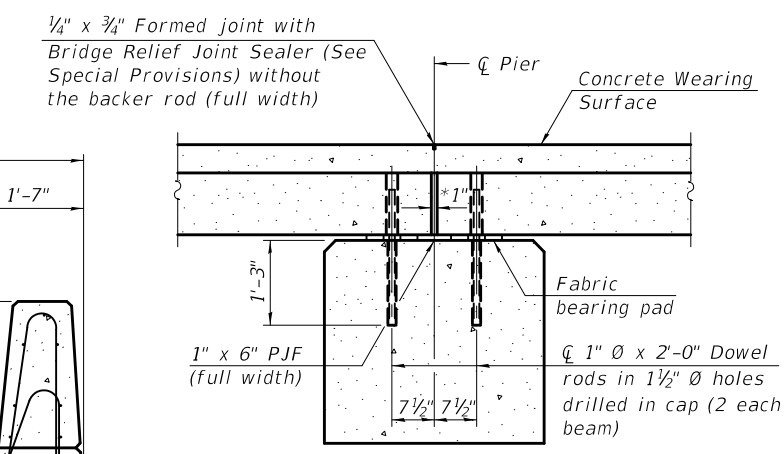


CROSS SECTION  
(Looking )



SECTION A-A

Notes:  
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.  
See sheet of for fabric bearing pad details.



SECTION B-B

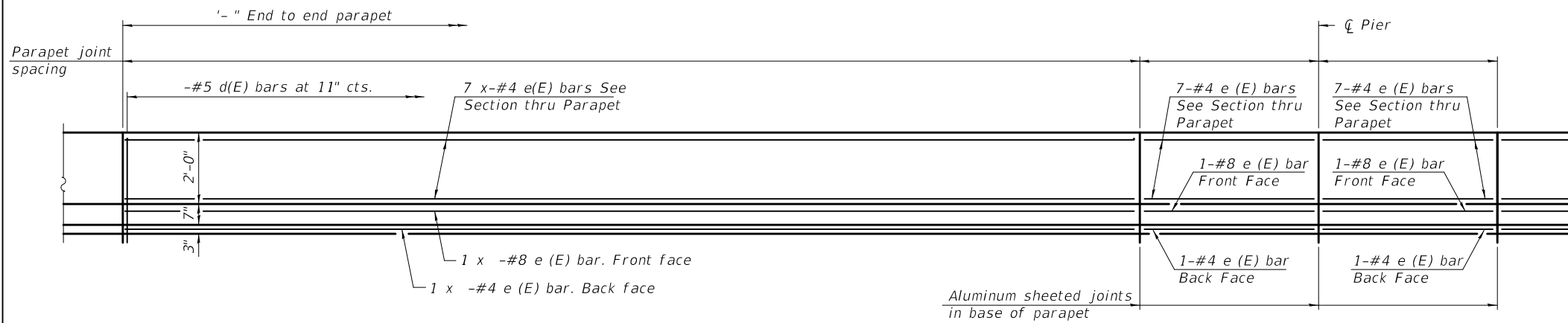
\*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

Notes:  
See sheet of for Superstructure Details and Bill of Material.  
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.

MINIMUM BAR LAP  
#4 bar = 2'-2"

PDS-11-M-F-0 2-17-2017

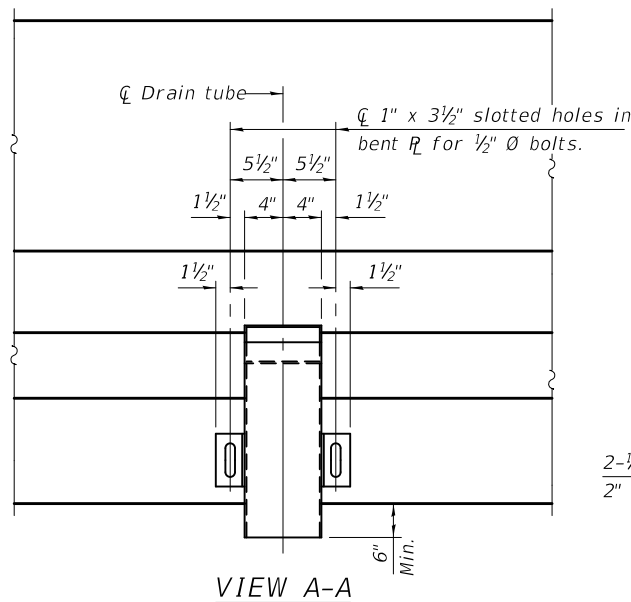
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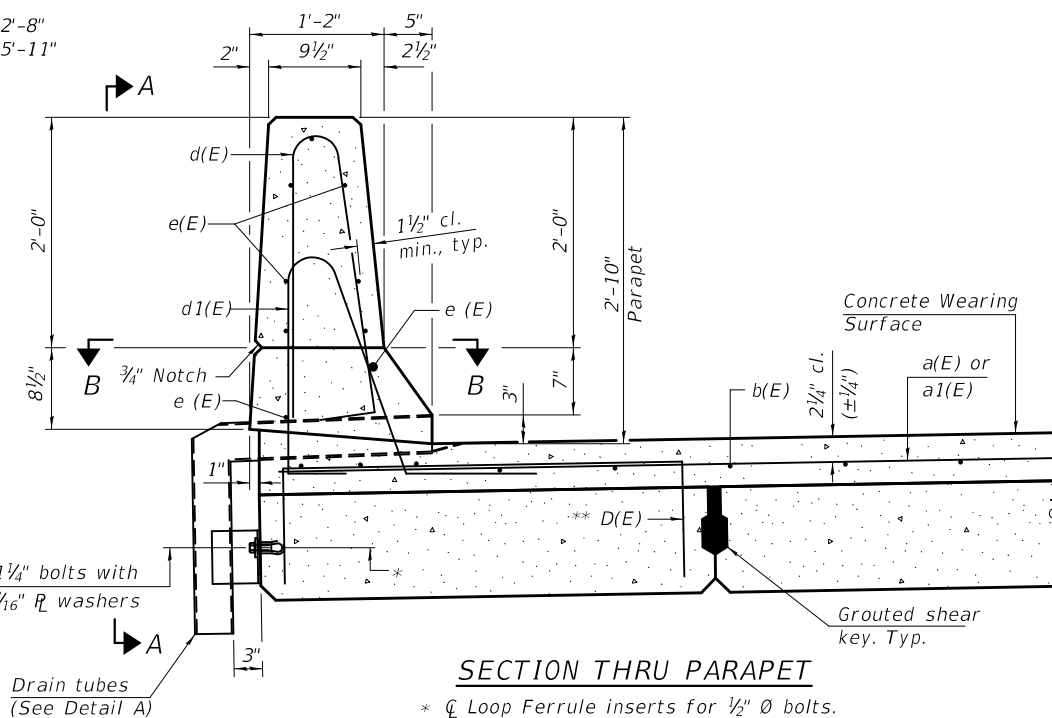
### MINIMUM BAR LAP

(Parapet)  
 #4 bar = 2'-8"  
 #8 bar = 5'-11"

### INSIDE ELEVATION OF PARAPET

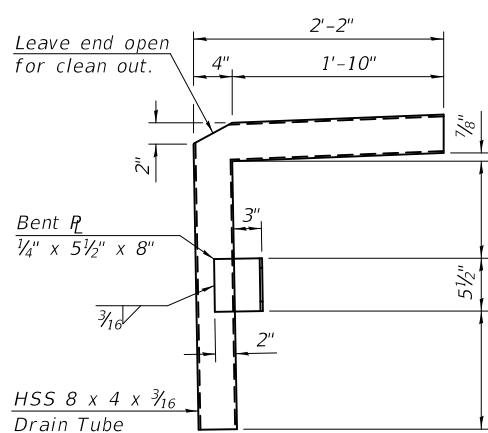


VIEW A-A

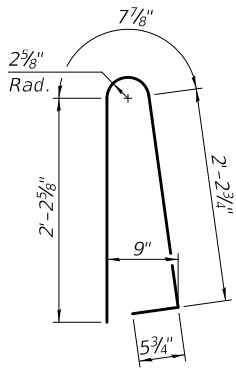


### SECTION THRU PARAPET

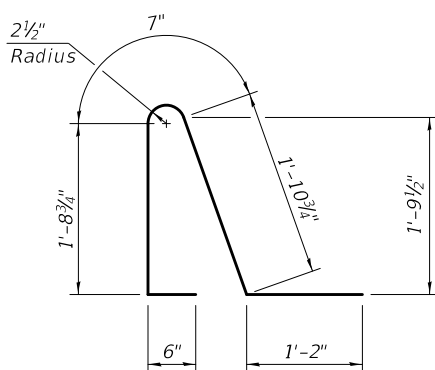
- \*  $\phi$  Loop Ferrule inserts for  $\frac{1}{2}$ "  $\phi$  bolts. Place at  $\phi$  of beam depth.
- \*\* Place #4 D(E) bars at 9" cts. in fascia beam. D(E) bar included in cost of beam.



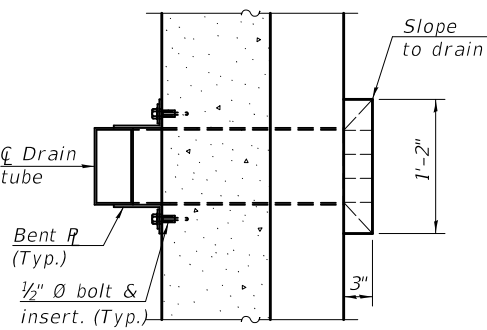
DETAIL A



BAR d(E)



BAR d1(E)



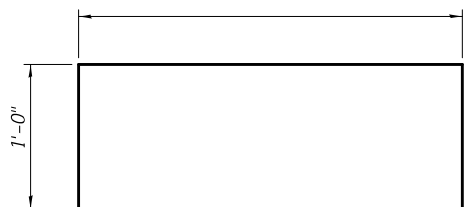
SECTION B-B

### SUPERSTRUCTURE BILL OF MATERIAL

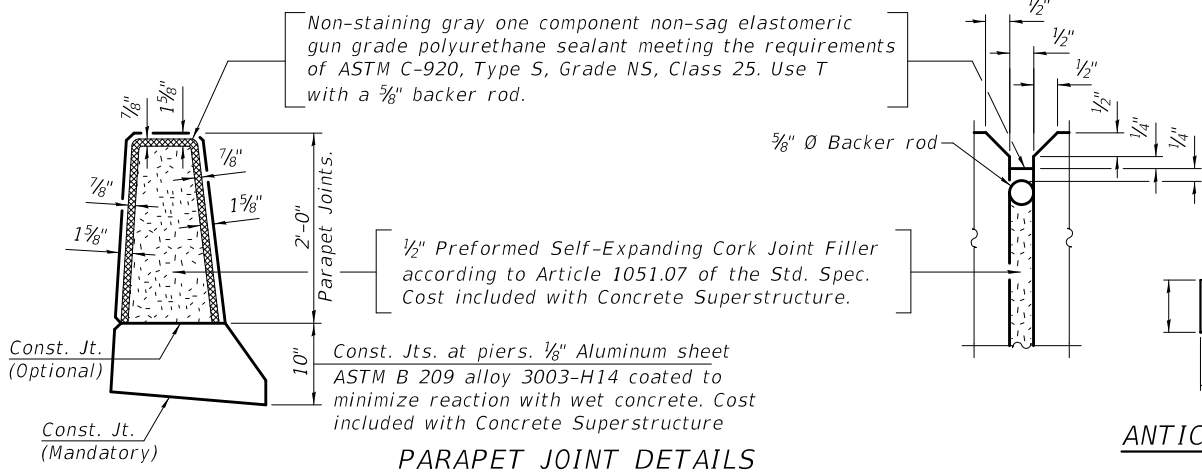
Bar	No.	Size	Length	Shape
a(E)		#4		
a1(E)		#4	6'-0"	
b(E)		#4		
d(E)		#5	5'-7"	
d1(E)		#5	5'-11"	
e(E)		#4		
e (E)		#8		
e (E)		#4		
e (E)		#8		
e (E)		#4		
Reinforcement Bars, Epoxy Coated		Pound		
Concrete Superstructure		Cu. Yd.		
Concrete Wearing Surface, 5"		Sq. Yd.		

Bars indicated thus 1 x -#4 etc. indicates 1 line of bars with lengths per line.

Note:  
 All drain tubes and accessories shall be galvanized according to AASHTO M111 or M232, (as applicable).  
 The cost of the drain tube assemblies and everything necessary for their installation is included with Concrete Superstructure.



BAR D(E)



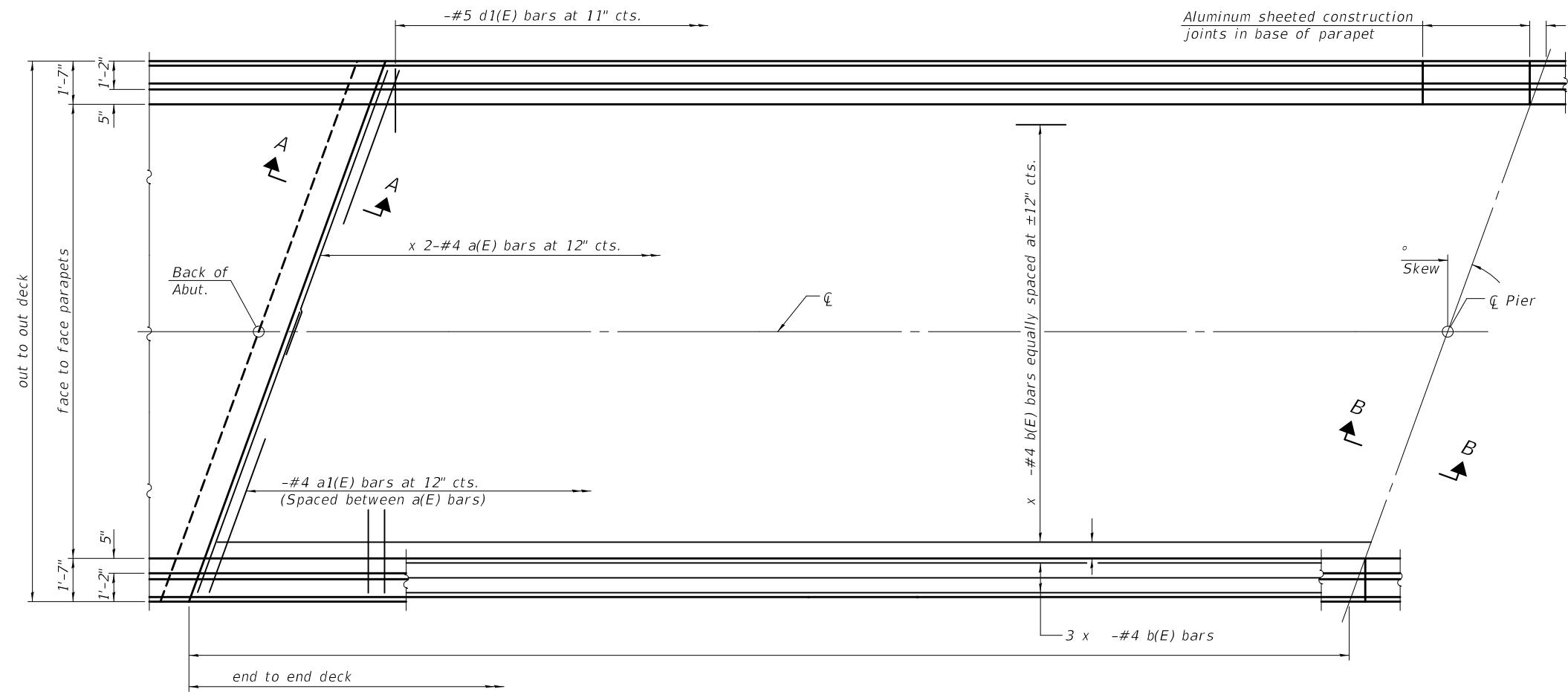
### PARAPET JOINT DETAILS

### ANTICIPATED CONCRETE WEARING SURFACE PROFILE

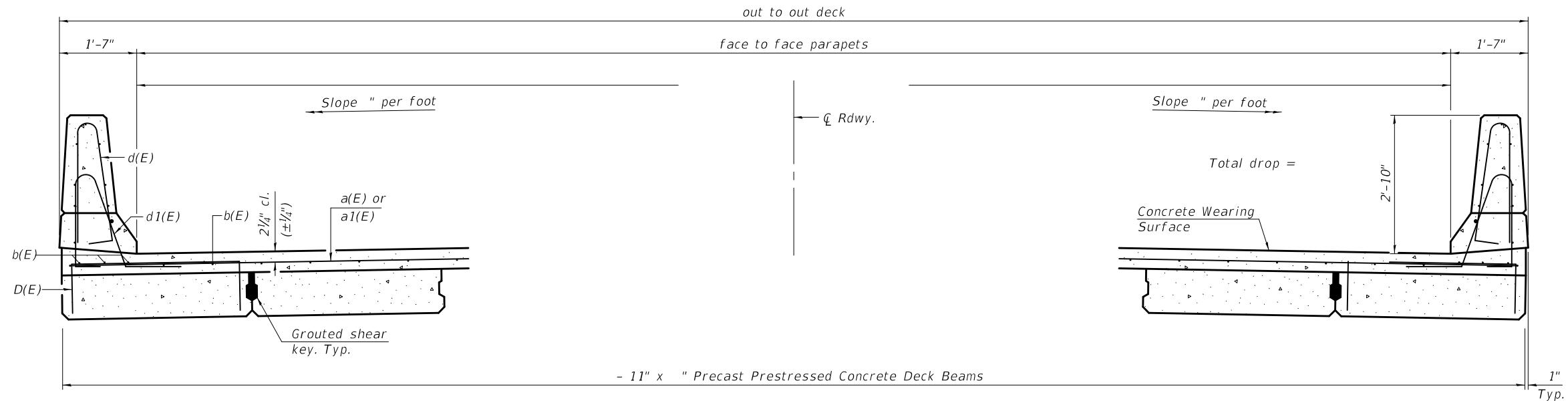
(For information only)

PDS-11-M-F-D 2-17-2017

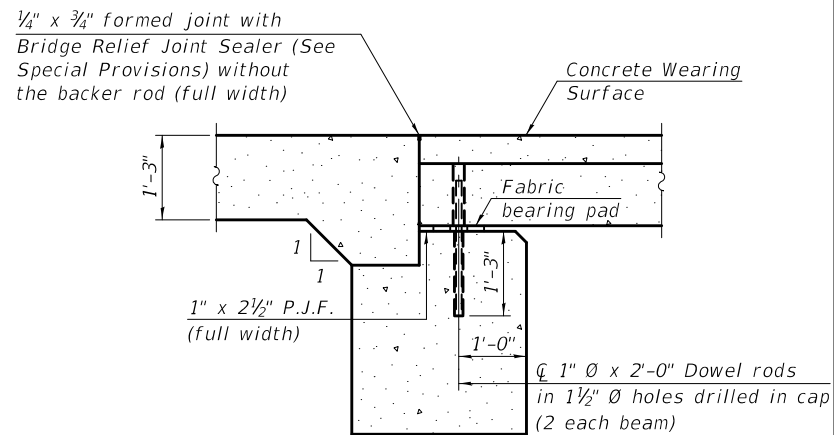
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						ILLINOIS FED. AID PROJECT				



PLAN



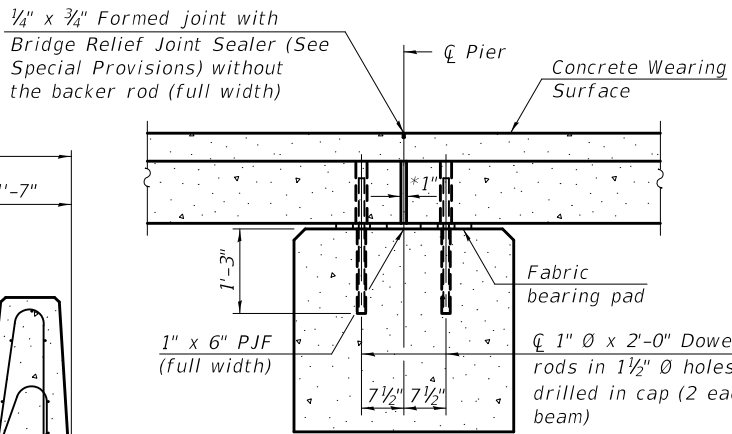
CROSS SECTION  
(Looking )



SECTION A-A

(Dimensions are at Rt. L's)

Notes:  
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.  
See sheet of for fabric bearing pad details.



SECTION B-B

(Dimensions are at Rt. L's)

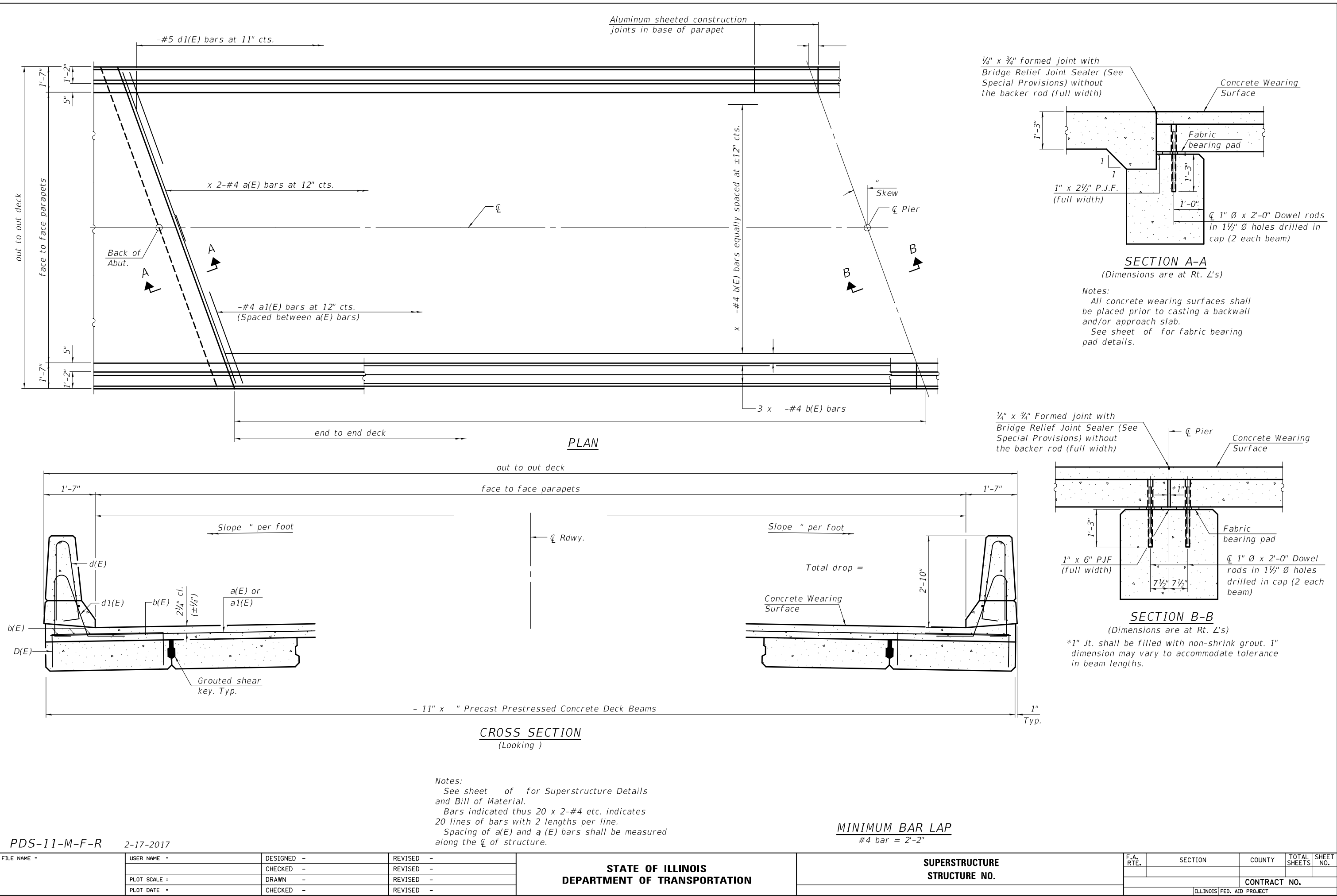
\*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

MINIMUM BAR LAP  
#4 bar = 2'-2"

Notes:  
See sheet of for Superstructure Details and Bill of Material.  
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.  
Spacing of a(E) and a1(E) bars shall be measured along the  $\phi$  of structure.

PDS-11-M-F-L 2-17-2017

FILE NAME =	USER NAME =	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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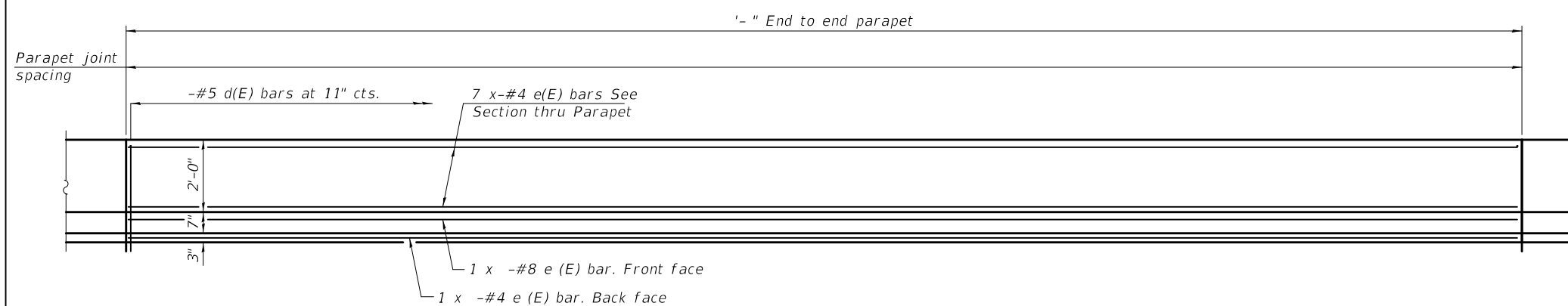


## PLAN



MINIMUM BAR LAP  
#4 bar = 2'-2"

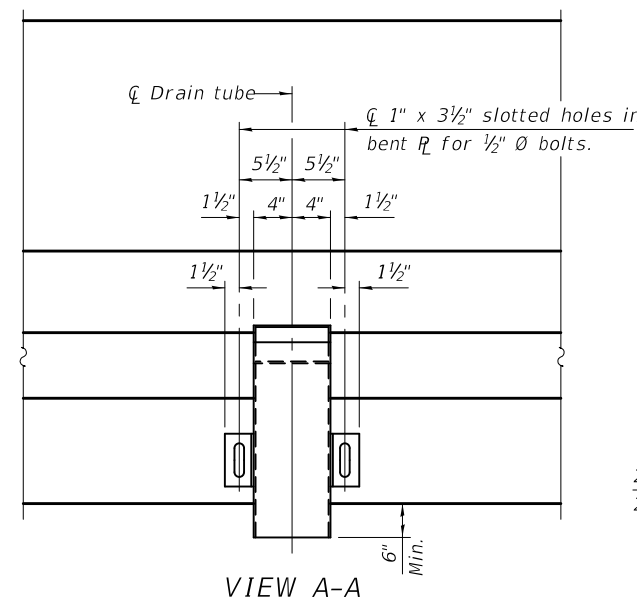
PDS-11-S-F-0		2-17-2017		20 times of bars with 2 lengths per time.		#4 bar = 2'-2"				
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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INSIDE ELEVATION OF PARAPET

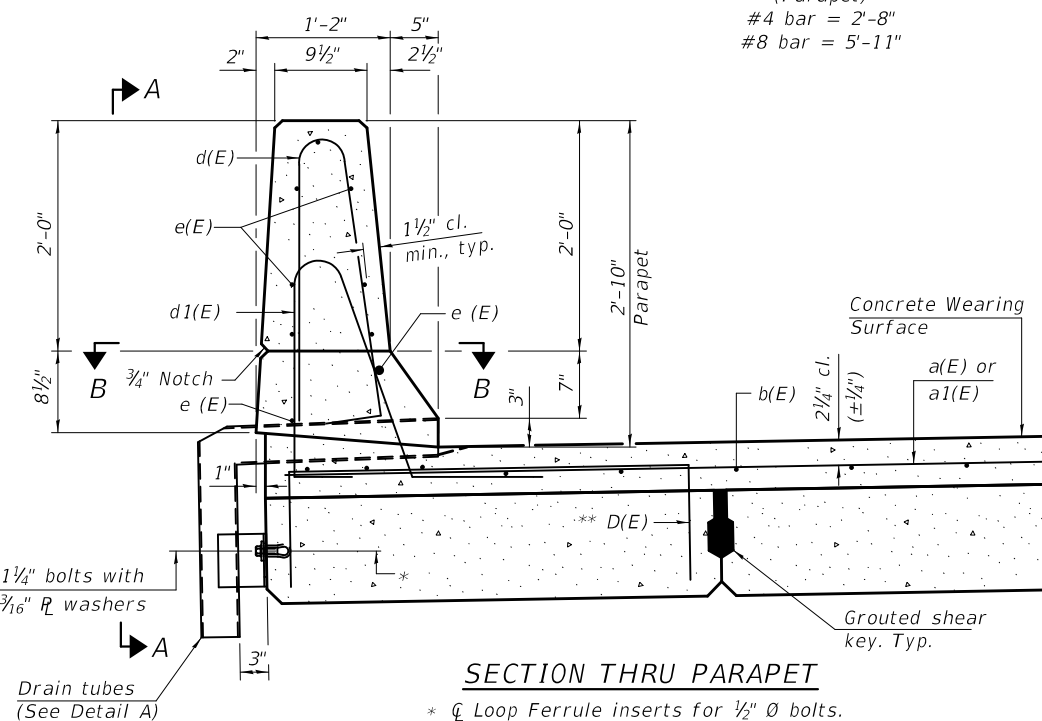
MINIMUM BAR LAP

(Parapet)  
#4 bar = 2'-8"  
#8 bar = 5'-11"



VIEW A-A

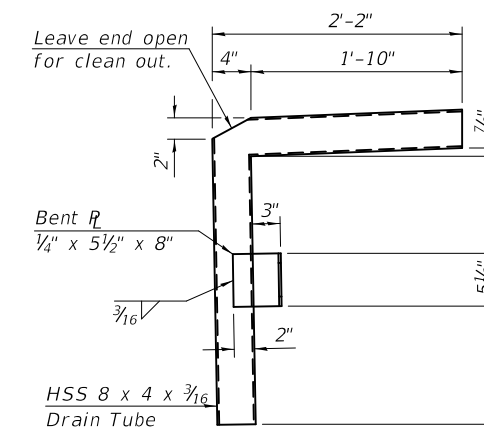
Note:  
All drain tubes and accessories shall be galvanized according to AASHTO M111 or M232, (as applicable).  
The cost of the drain tube assemblies and everything necessary for their installation is included with Concrete Superstructure.



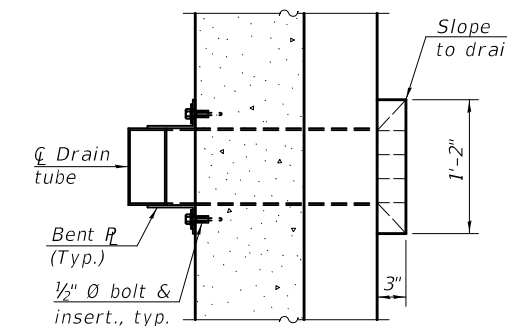
SECTION THRU PARAPET

\* Loop Ferrule inserts for 1/2" Ø bolts. Place at center of beam depth.

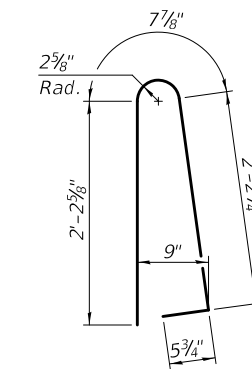
\*\* Place #4 D(E) bars at 9" cts. in fascia beam. D(E) bar included in cost of beam.



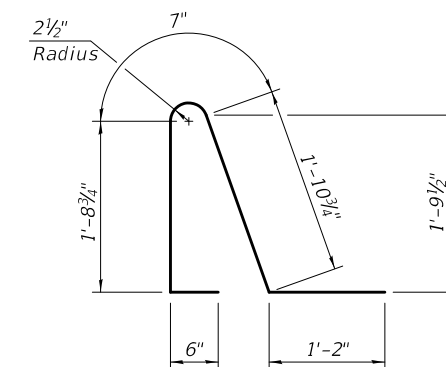
DETAIL A



SECTION B-B



BAR d(E)

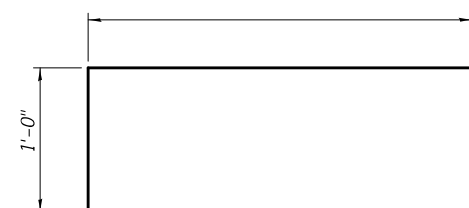


BAR d1(E)

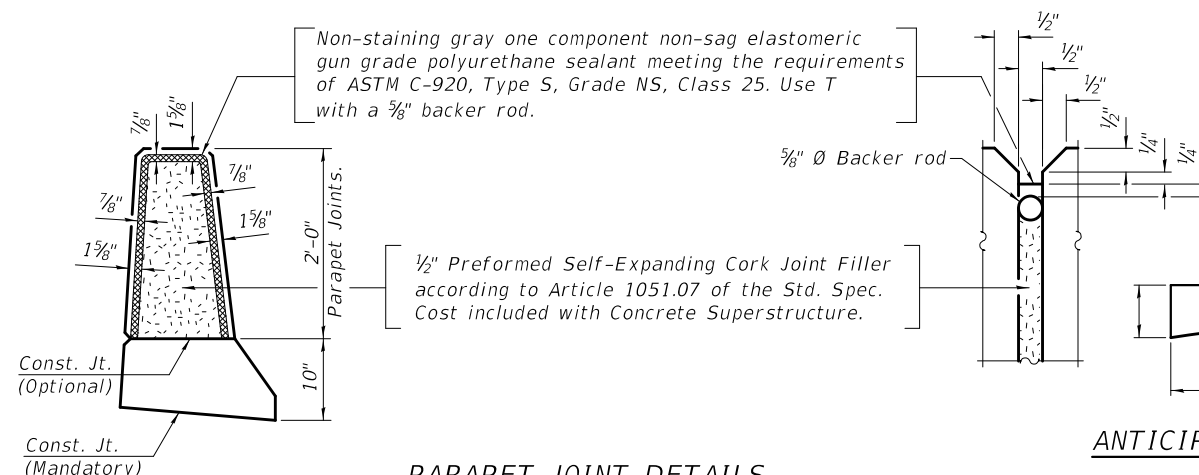
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)		#4		—
a1(E)		#4	6'-0"	—
b(E)		#4		—
d(E)		#5	5'-7"	⏏
d1(E)		#5	5'-11"	⏏
e(E)		#4		—
e (E)		#8		—
e (E)		#4		—
Reinforcement Bars, Epoxy Coated		Pound		
Concrete Superstructure		Cu. Yd.		
Concrete Wearing Surface, 5"		Sq. Yd.		

Bars indicated thus 1 x -#4 etc. indicates 1 line of bars with lengths per line.

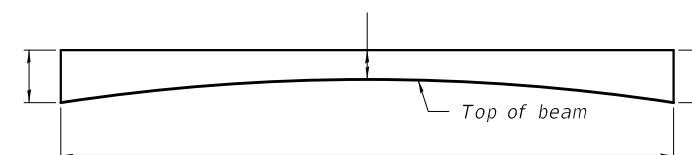


BAR D(E)



PARAPET JOINT DETAILS

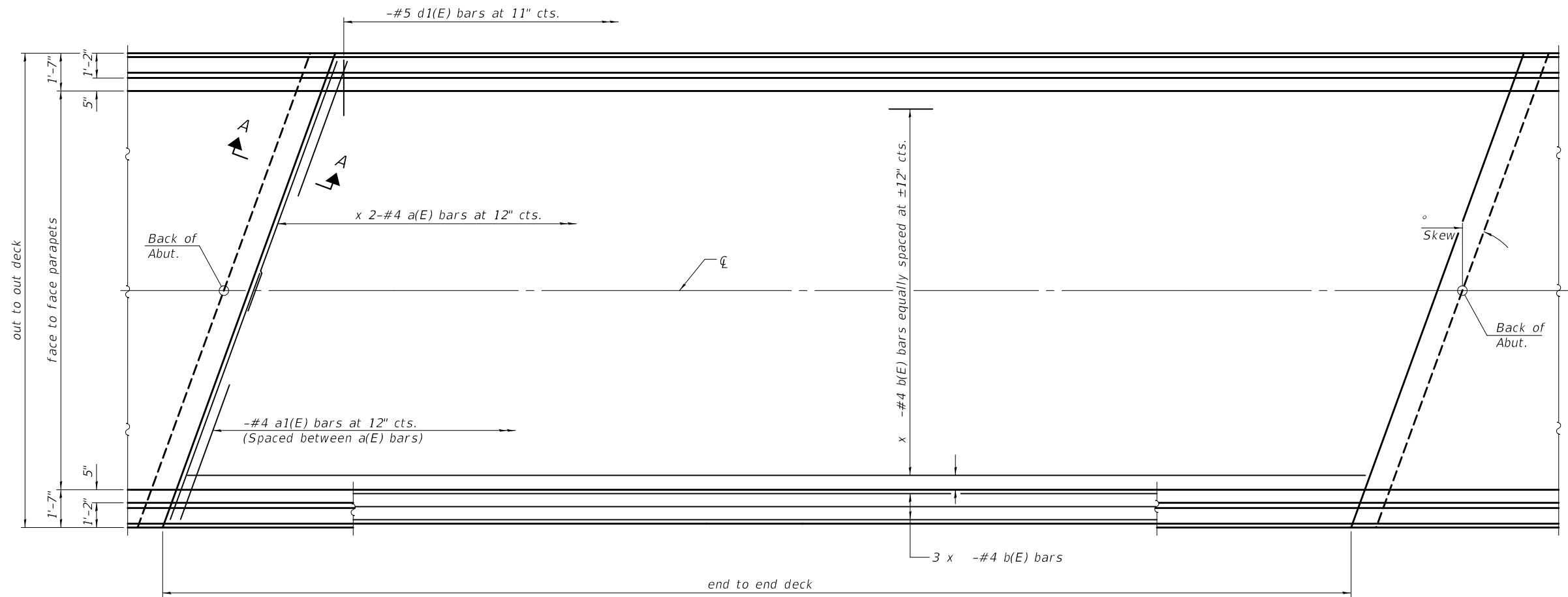
ANTICIPATED CONCRETE WEARING SURFACE PROFILE  
(For information only)



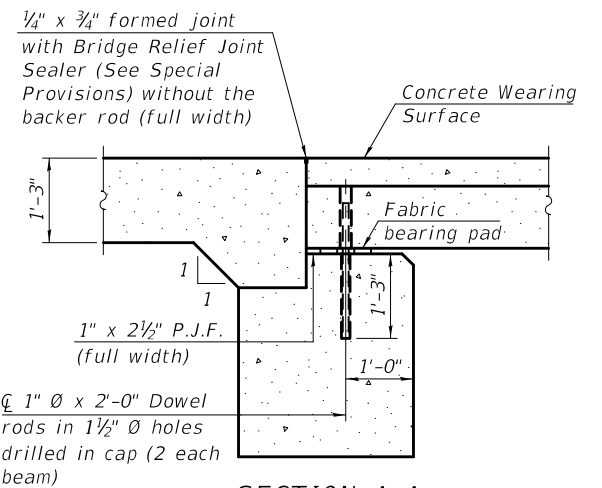
PDS-11-S-F-D 2-17-2017

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE DETAILS STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
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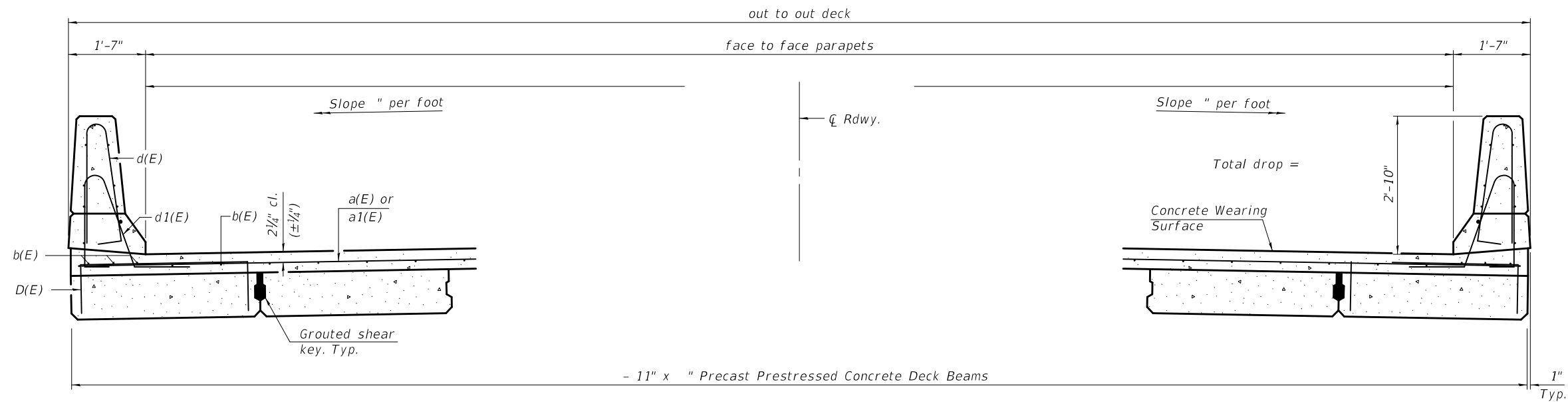


**PLAN**



**SECTION A-A**  
(Dimensions are at Rt. L's)

Notes:  
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.  
See sheet of for fabric bearing pad details.



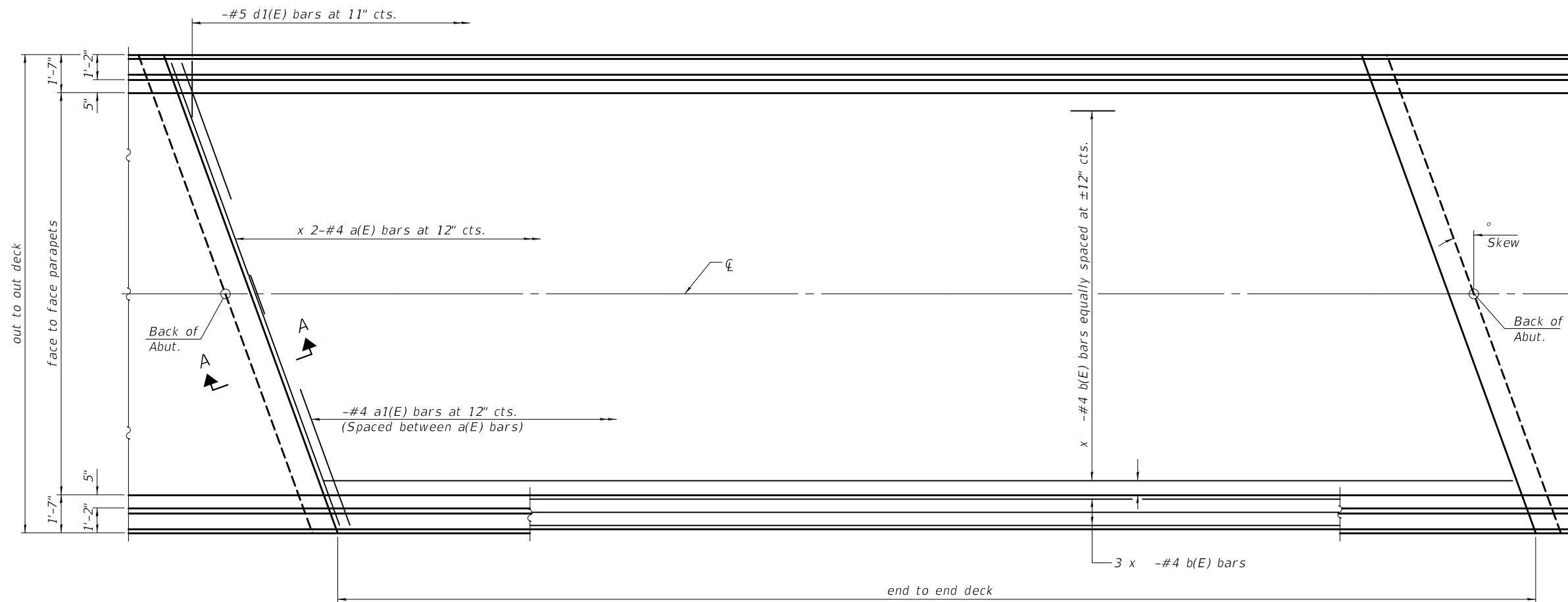
**CROSS SECTION**  
(Looking )

Notes:  
See sheet of for Superstructure Details and Bill of Material.  
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.  
Spacing of a(E) and a1(E) bars shall be measured along the C of structure.

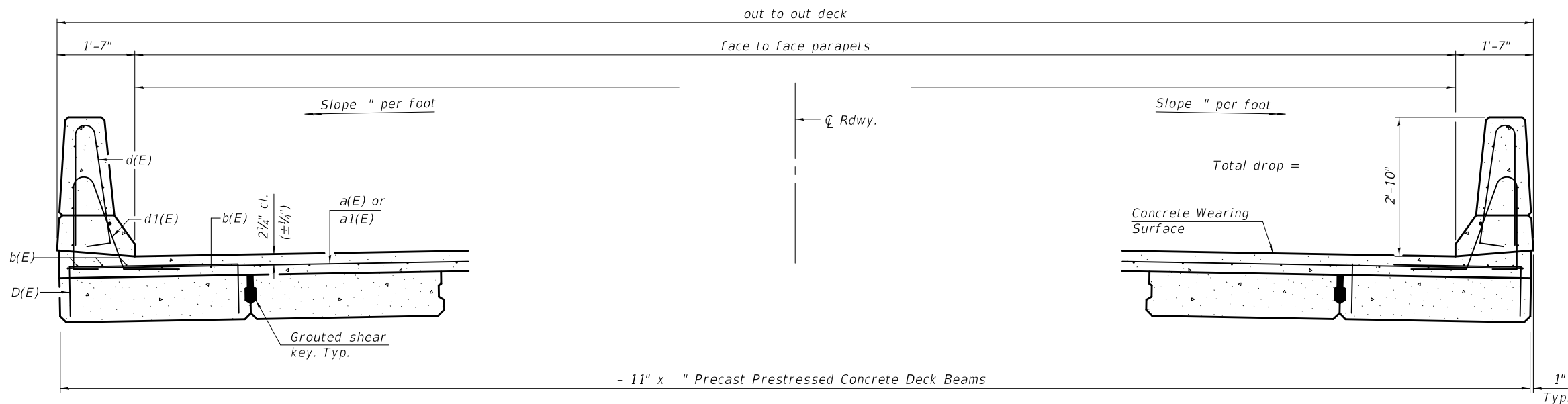
**MINIMUM BAR LAP**  
#4 bar = 2'-2"

PDS-11-S-F-L 2-17-2017

FILE NAME =	USER NAME =	DESIGNED -	REVISD -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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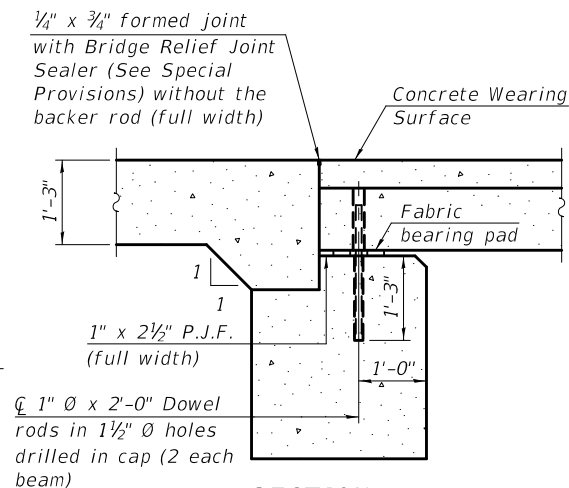
PLAN



CROSS SECTION  
(Looking )

Notes:  
See sheet of for Superstructure Details and Bill of Material.  
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.  
Spacing of a(E) and a1(E) bars shall be measured along the  $\bar{C}$  of structure.

MINIMUM BAR LAP  
#4 bar = 2'-2"

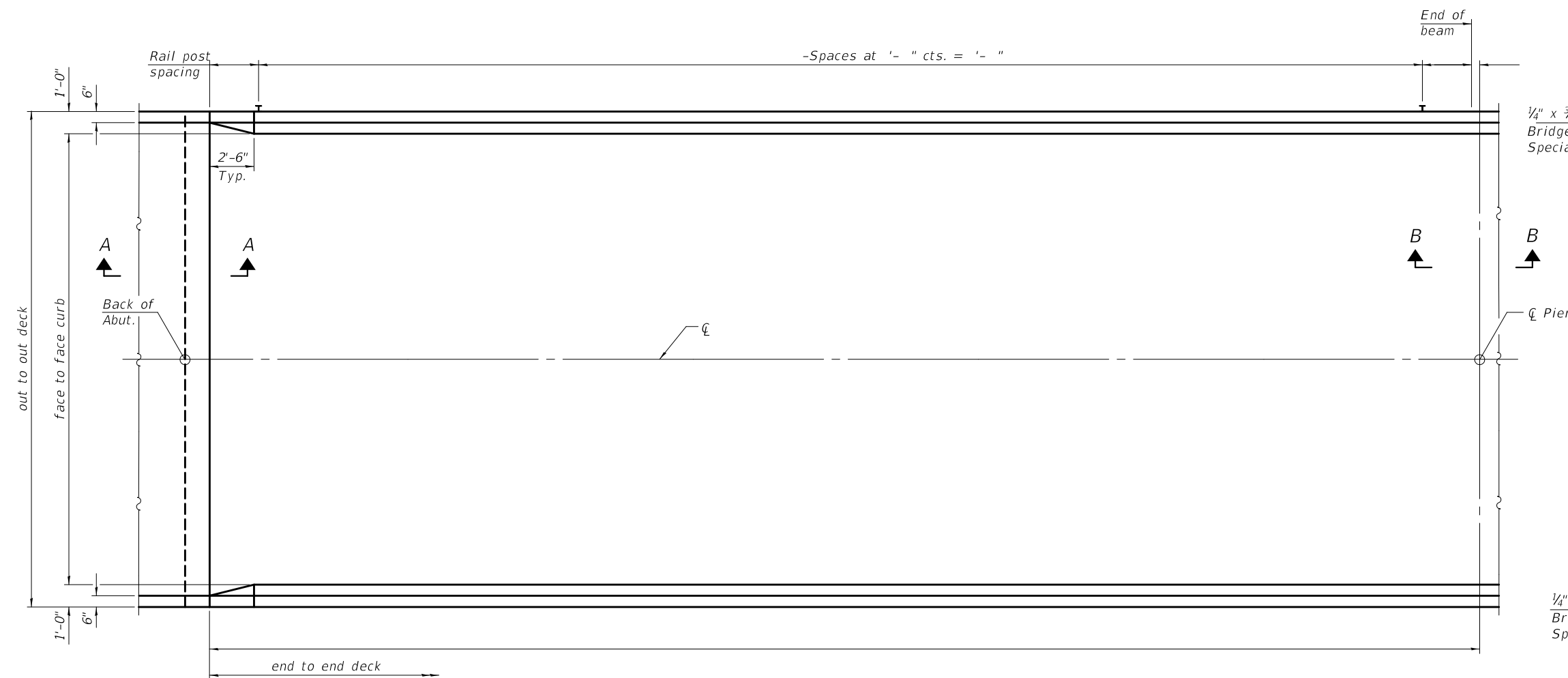


SECTION A-A  
(Dimensions are at Rt. L's)

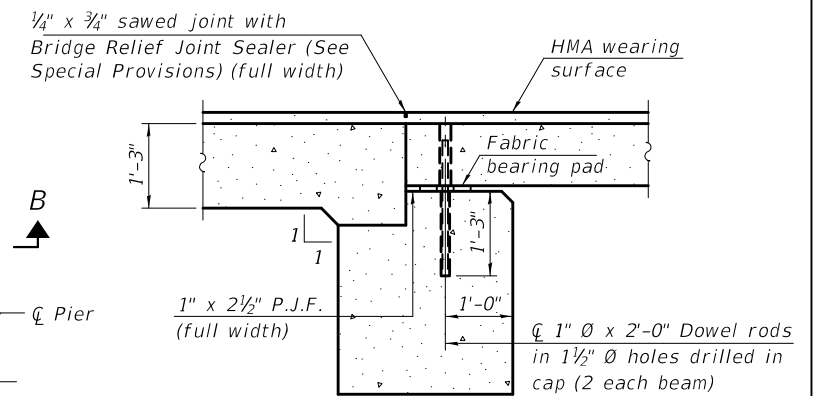
Notes:  
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.  
See sheet of for fabric bearing pad details.

PDS-11-S-F-R 2-17-2017

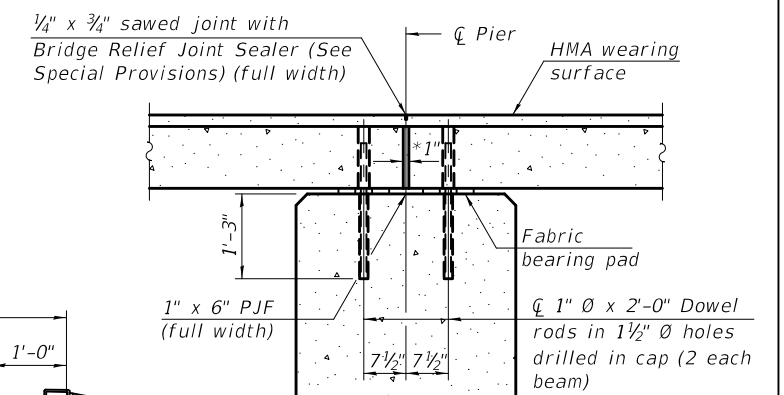
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PLAN

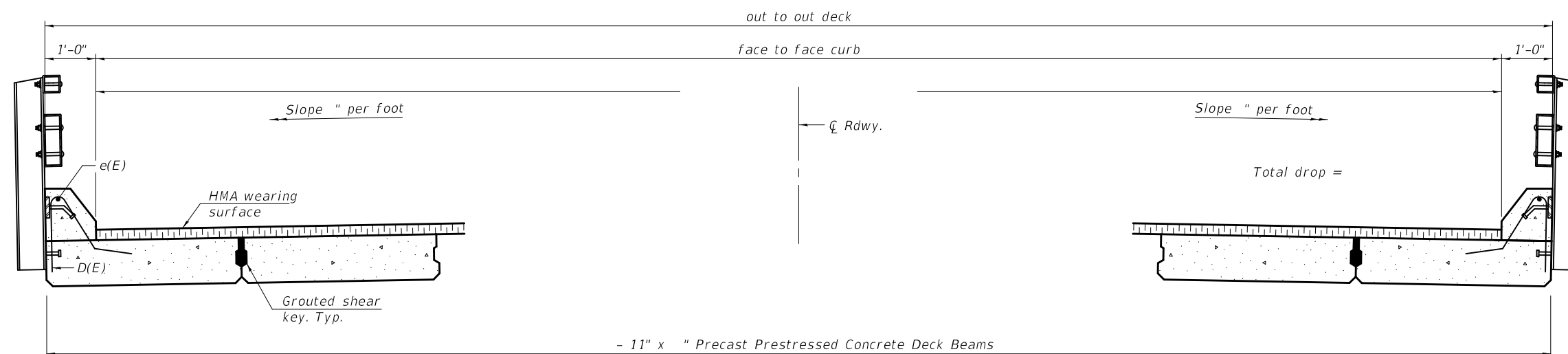


SECTION A-A  
See sheet of for  
fabric bearing pad details.



SECTION B-B

\*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

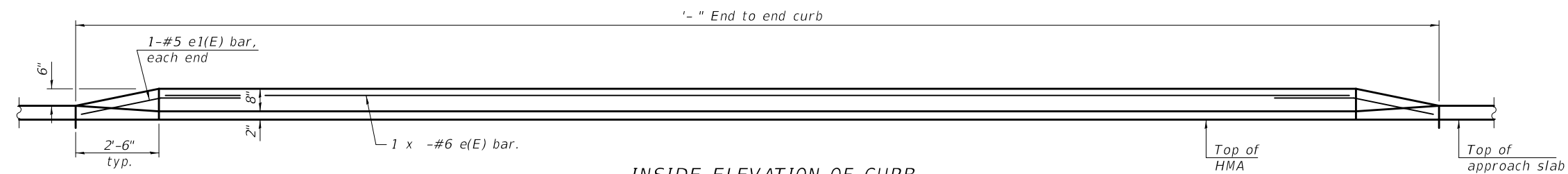


CROSS SECTION  
(Looking )

Notes:  
See sheet of for Superstructure Details  
and Bill of Material.

PDS-HMA-11-M-T1-0 2-17-2017

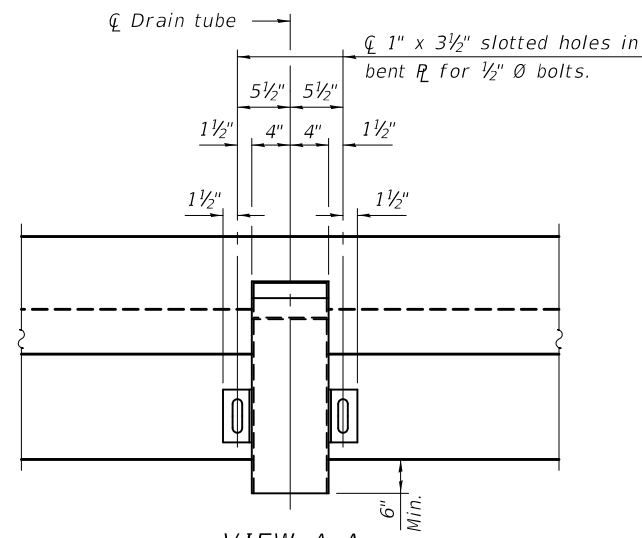
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INSIDE ELEVATION OF CURB

MINIMUM BAR LAP

#6 bar 3'-7"

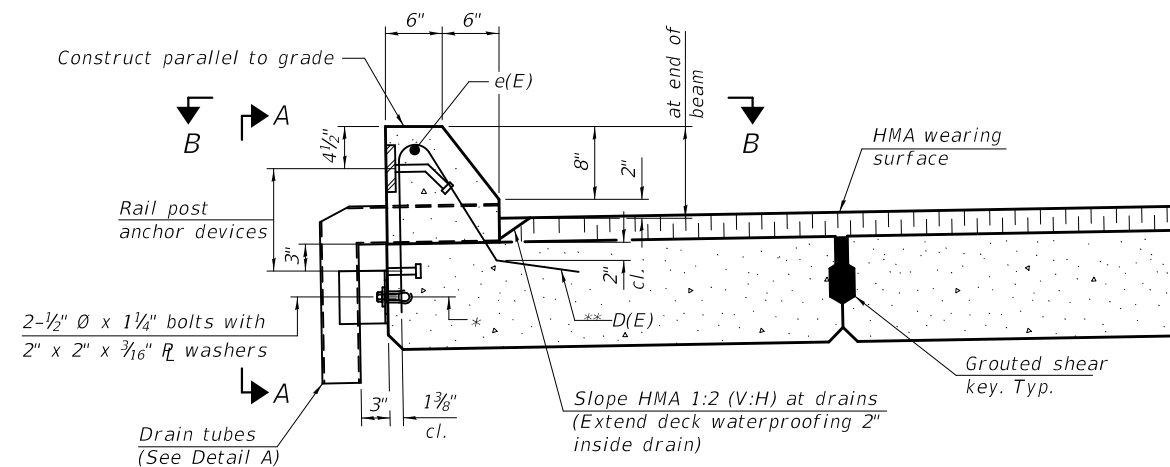


VIEW A-A

Note:

All drain tubes and accessories shall be galvanized according to AASHTO M111 or M232, (as applicable).

The cost of the drain tube assemblies and everything necessary for their installation is included with Concrete Superstructure.

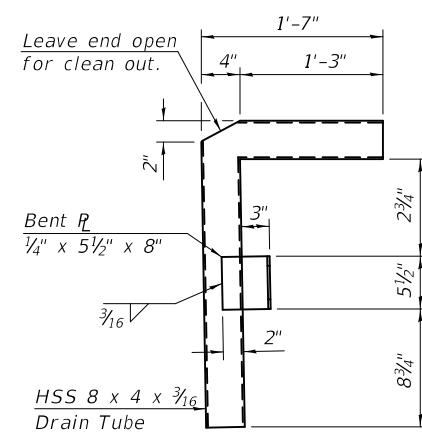


SECTION THRU CURB

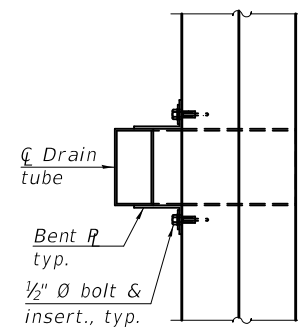
Curbs shall be poured in the field.

\*  $\phi$  Loop Ferrule inserts for  $\frac{1}{2}$ "  $\phi$  bolts. Place at  $\phi$  of beam depth.

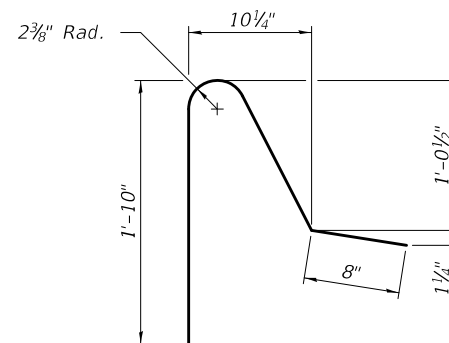
\*\* Place #5 D(E) bars at 12" cts. in fascia beam for railing curb. Omit D(E) bars in curb transition. D(E) bar included in cost of beam.



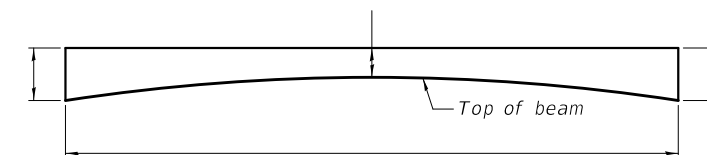
DETAIL A



VIEW B-B

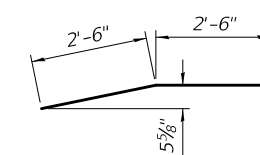


BAR D(E)



ANTICIPATED HMA WEARING SURFACE PROFILE

(For information only)



BAR e1(E)

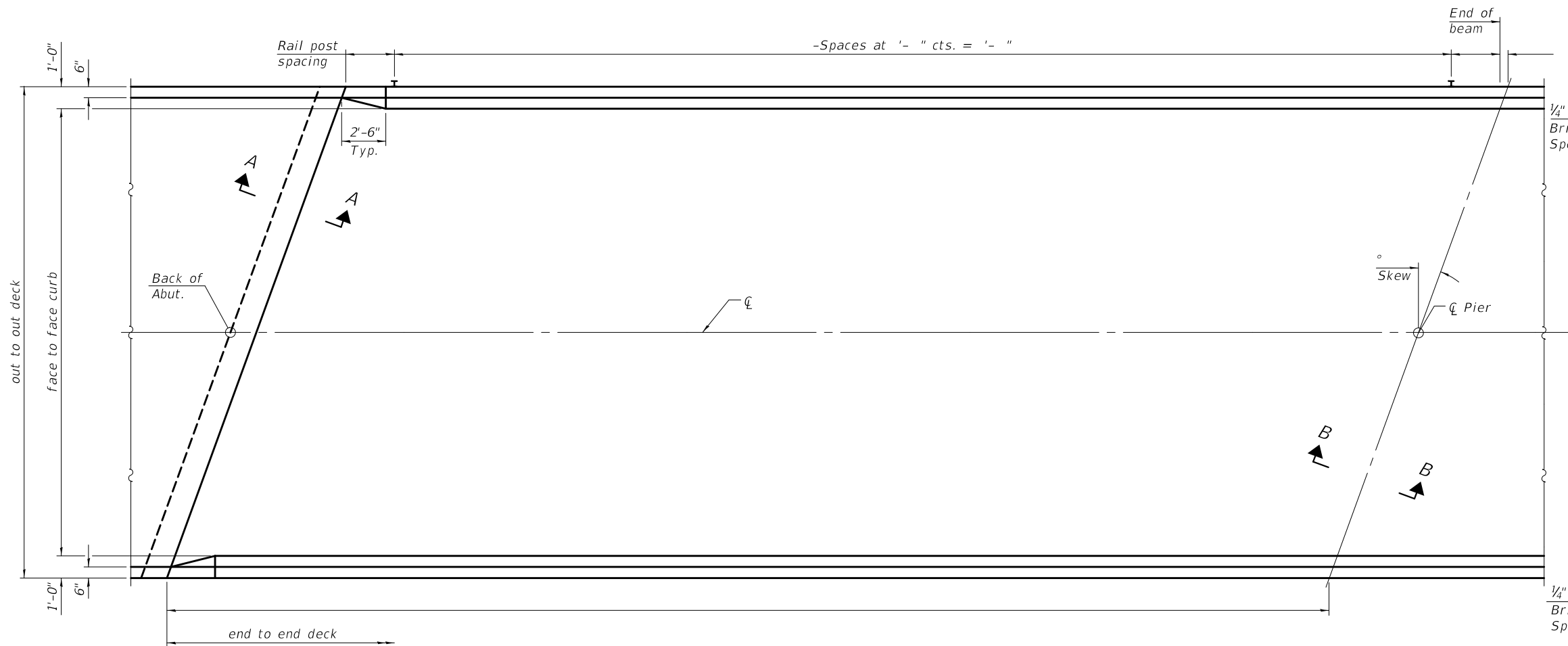
SUPERSTRUCTURE  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
e(E)		#6		
e1(E)	4	#5	5'-0"	
Reinforcement Bars, Epoxy Coated			Pound	
Concrete Superstructure			Cu. Yd.	
HMA Wearing Surface			Tons	

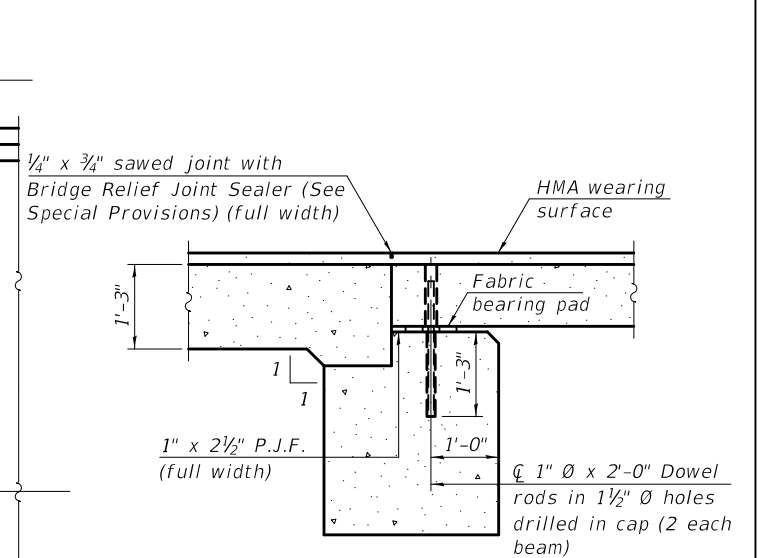
Bars indicated thus 1 x -#6 etc. indicates 1 line of bars with lengths per line.

PDS-HMA-11-M-T1-D 2-17-2017

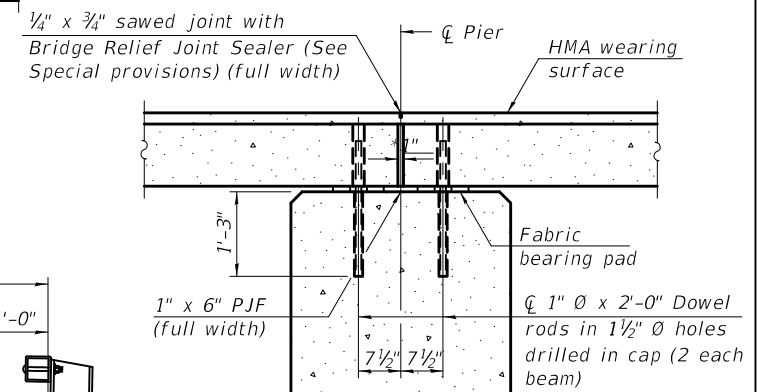
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							CONTRACT NO.			
						ILLINOIS FED. AID PROJECT				



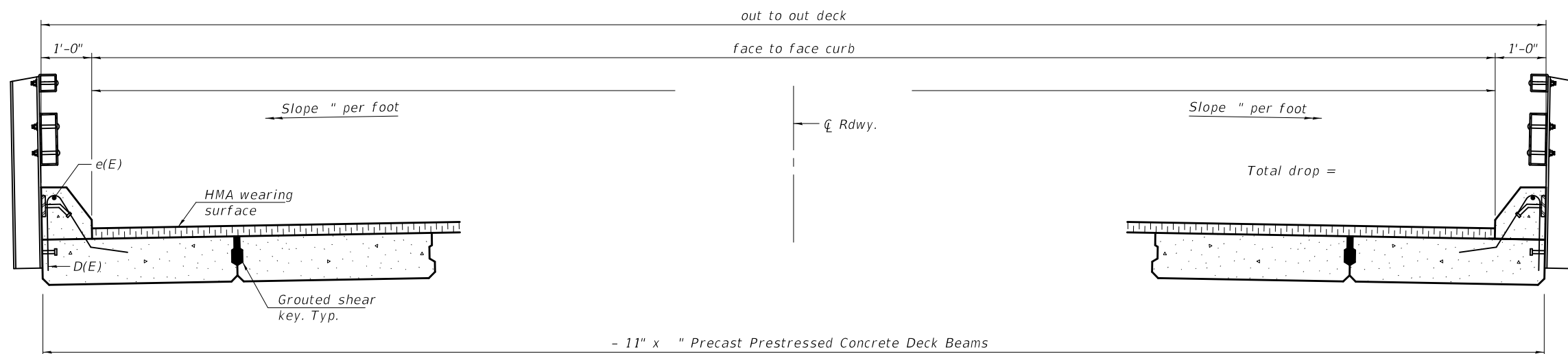
PLAN



**SECTION A-A**  
(Dimensions are at Rt. L's)  
See sheet of for  
fabric bearing pad details.



**SECTION B-B**  
(Dimensions are at Rt. L's)  
\*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

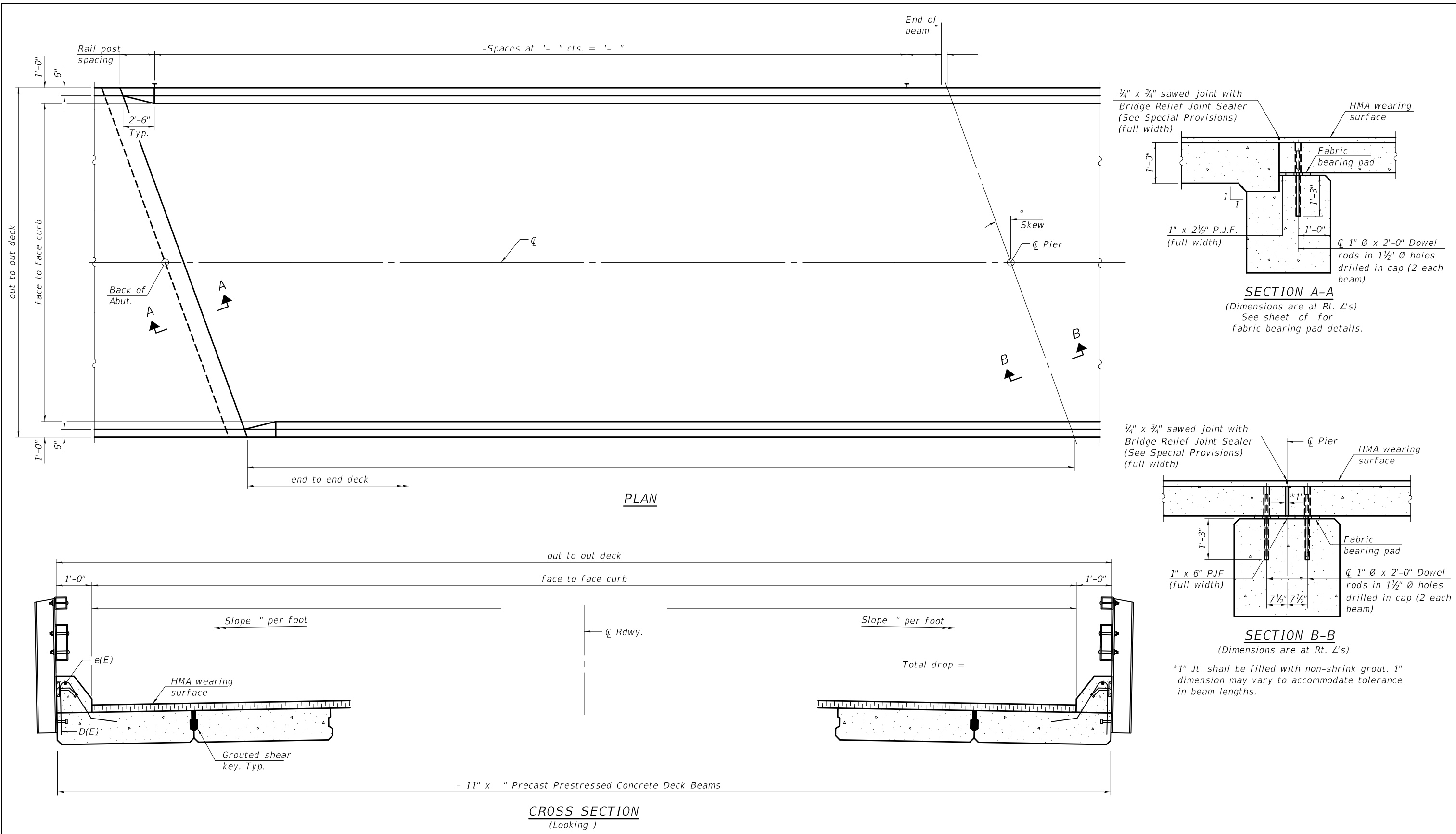


**CROSS SECTION**  
(Looking )

Notes:  
See sheet of for Superstructure Details  
and Bill of Material.

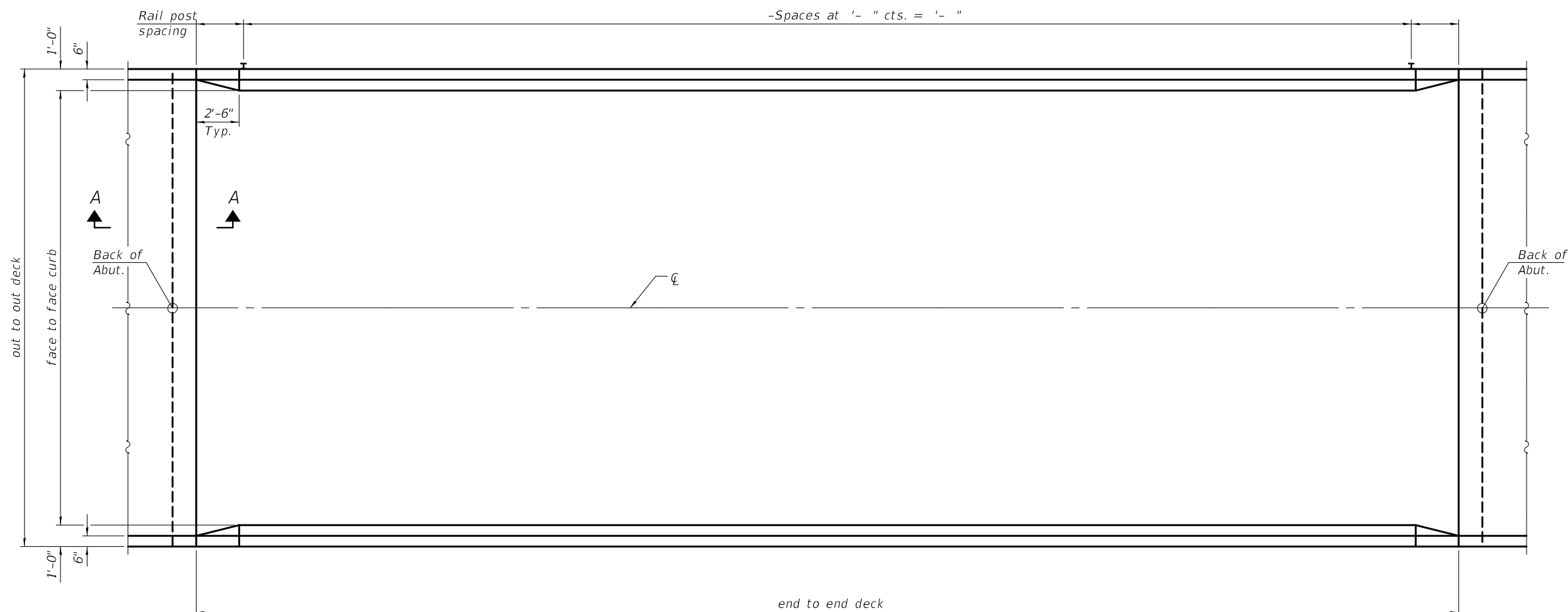
PDS-HMA-11-M-T1-L 2-17-2017

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE =	CHECKED -	REVISED -					ILLINOIS FED. AID PROJECT		

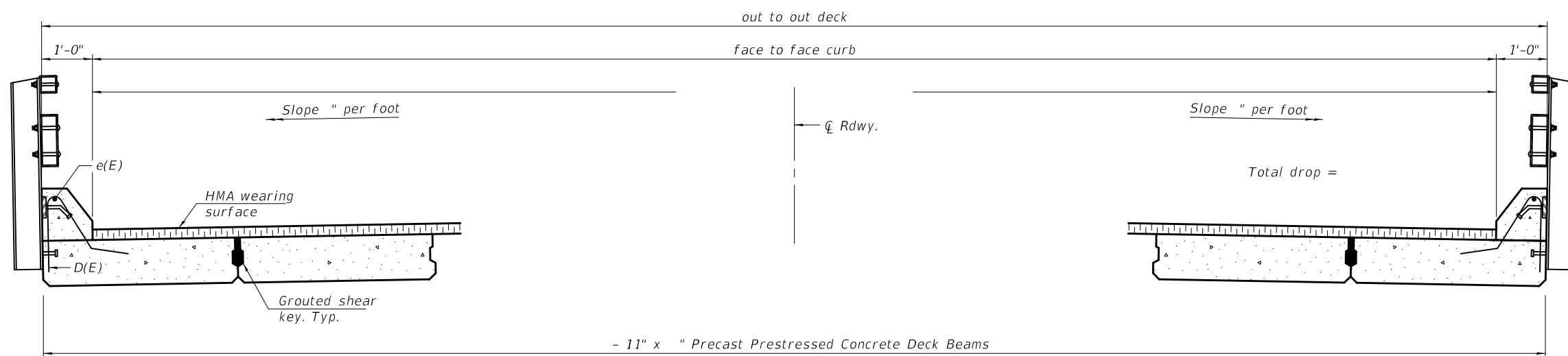


Notes:  
See sheet of for Superstructure Details  
and Bill of Material.

PDS-HMA-11-M-T1-R 2-17-2017										
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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								CONTRACT NO.		
								ILLINOIS FED. AID PROJECT		



PLAN



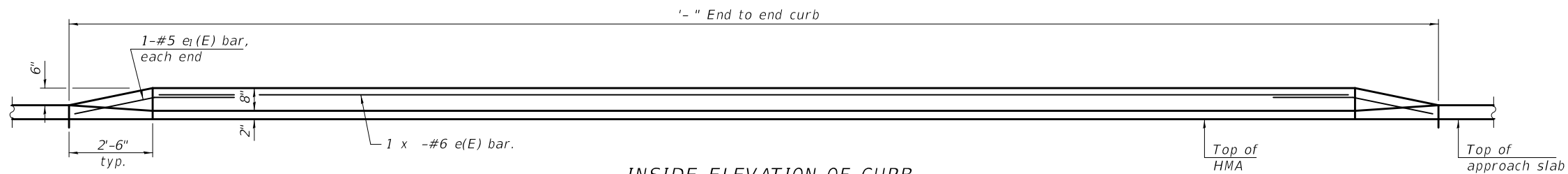
CROSS SECTION  
(Looking )

SECTION A-A  
See sheet of for  
fabric bearing pad details.

Notes:  
See sheet of for Superstructure Details  
and Bill of Material.

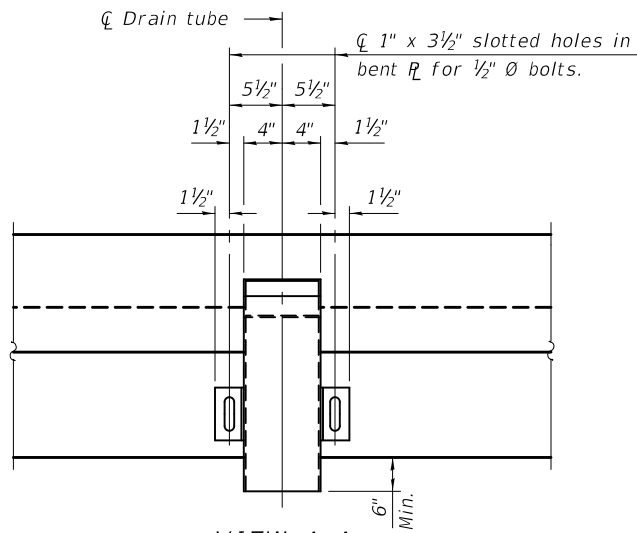
PDS-HMA-11-S-T1-0 2-17-2017

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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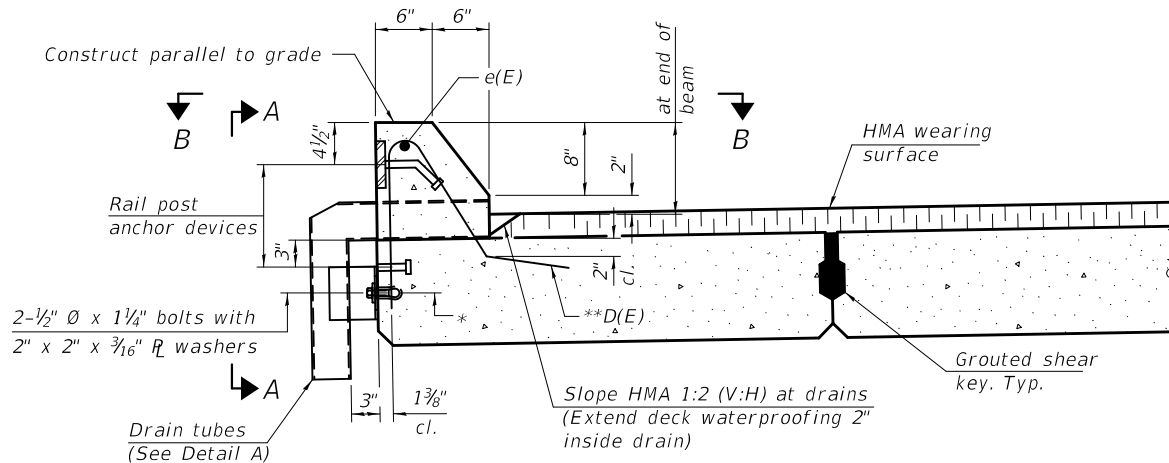
INSIDE ELEVATION OF CURB

MINIMUM BAR LAP  
#6 bar 3'-7"



VIEW A-A

Note:  
All drain tubes and accessories shall be galvanized according to AASHTO M111 or M232, (as applicable).  
The cost of the drain tube assemblies and everything necessary for their installation is included with Concrete Superstructure.

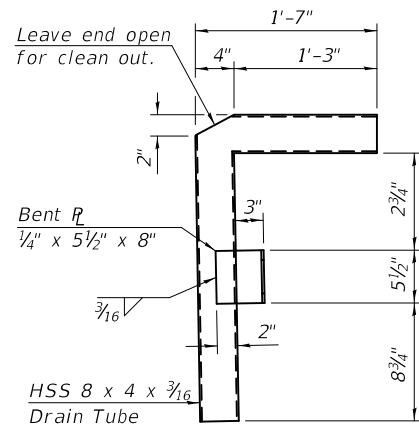


SECTION THRU CURB

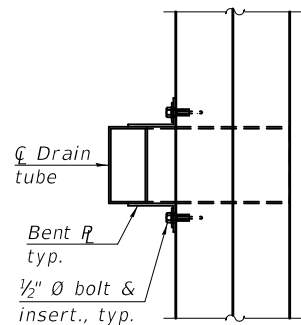
Curbs shall be poured in the field.

\*  $\phi$  Loop Ferrule inserts for 1/2" Ø bolts.  
Place at  $\phi$  of beam depth.

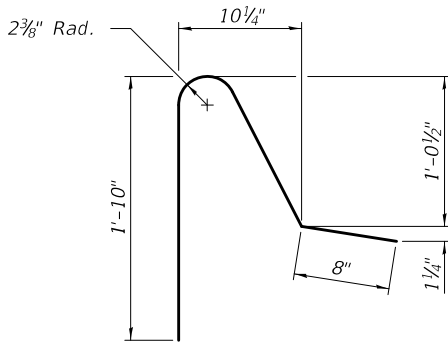
\*\* Place #5 D(E) bars at 12" cts. in fascia beam for railing curb. Omit D(E) bars in curb transition. D(E) bar included in cost of beam.



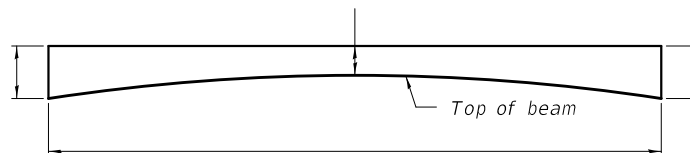
DETAIL A



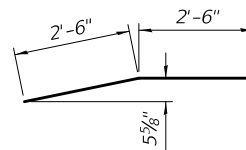
VIEW B-B



BAR D(E)



ANTICIPATED HMA WEARING SURFACE PROFILE  
(For information only)



BAR e1(E)

SUPERSTRUCTURE  
BILL OF MATERIAL

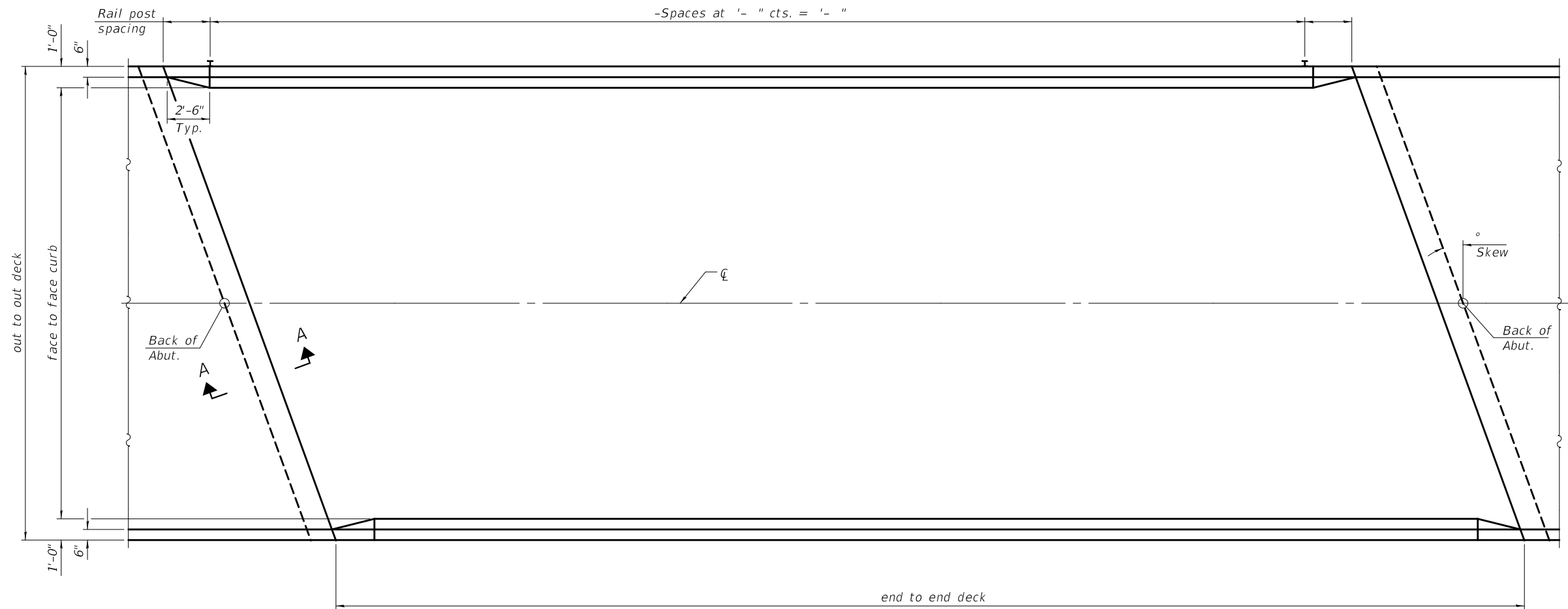
Bar	No.	Size	Length	Shape
e(E)		#6		
e1(E)	4	#5	5'-0"	
Reinforcement Bars, Epoxy Coated		Pound		
Concrete Superstructure		Cu. Yd.		
HMA Wearing Surface		Tons		

PDS-HMA-11-S-T1-D 2-17-2017

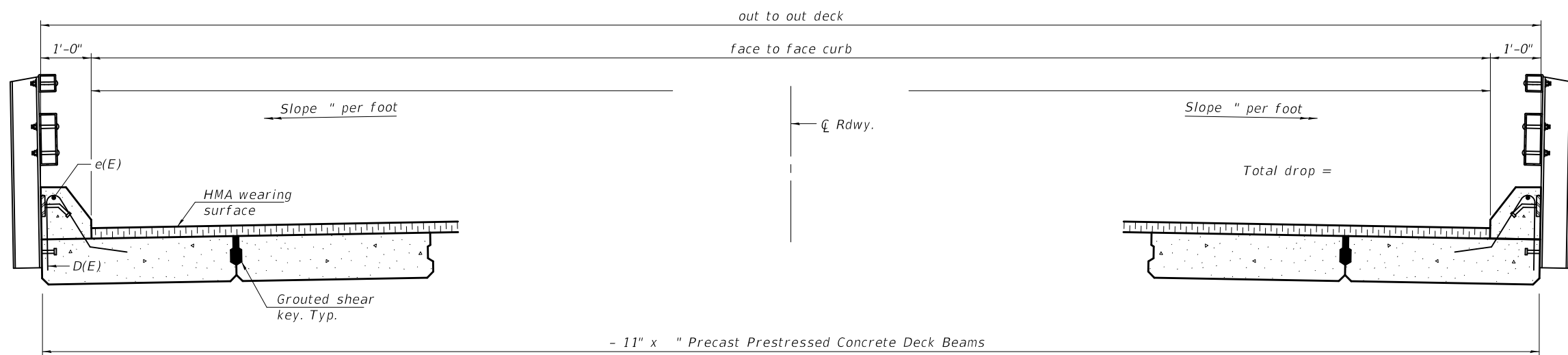
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	PLOT DATE =	CHECKED -	REVISED -					ILLINOIS FED. AID PROJECT		







PLAN



CROSS SECTION  
(Looking )

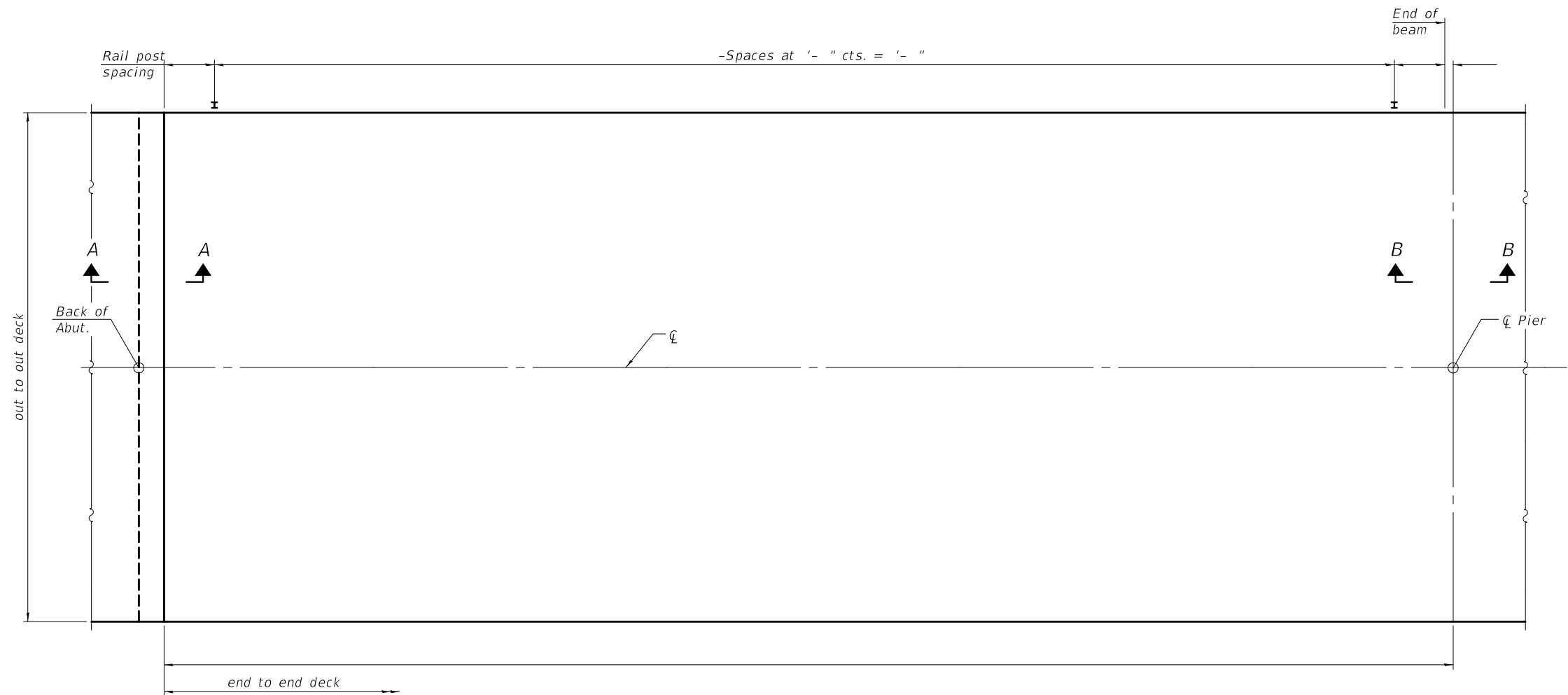
Notes:  
See sheet of for Superstructure Details  
and Bill of Material.

MINIMUM BAR LAP

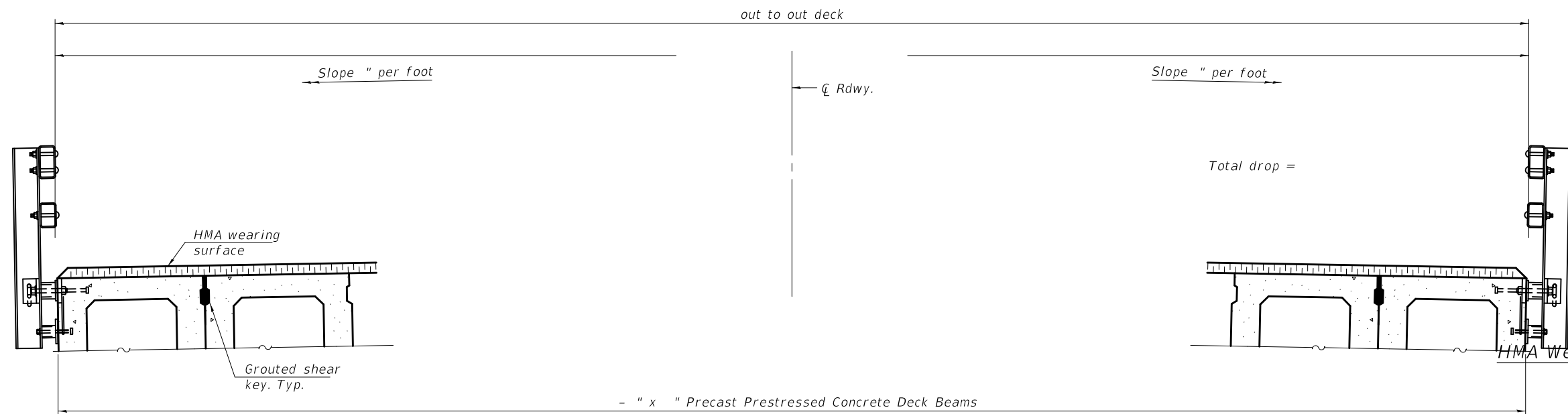
SECTION A-A  
(Dimensions are at Rt. L's)  
See sheet of for  
fabric bearing pad details.

PDS-HMA-11-S-T1-R 2-17-2017

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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**SECTION A-A**  
See sheet of for  
fabric bearing pad details.

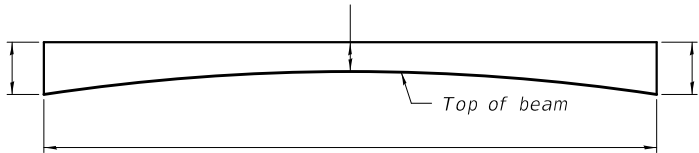


**SECTION B-B**  
\*1" Jt. shall be filled with non-shrink grout. 1"  
dimension may vary to accommodate tolerance  
in beam lengths.

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
HMA Wearing Surface	Tons	0

**CROSS SECTION**  
(Looking )



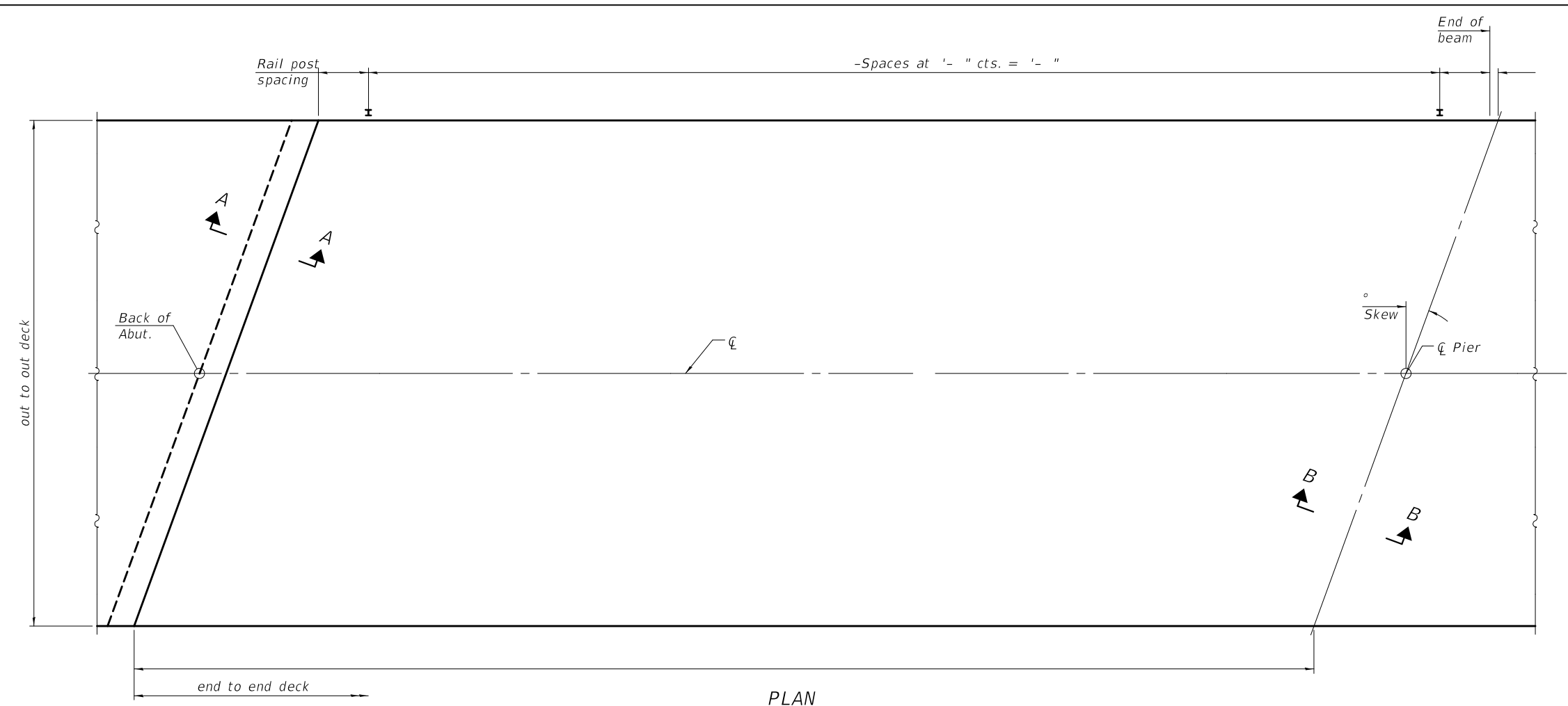
**ANTICIPATED HMA WEARING SURFACE PROFILE**

(For information only)

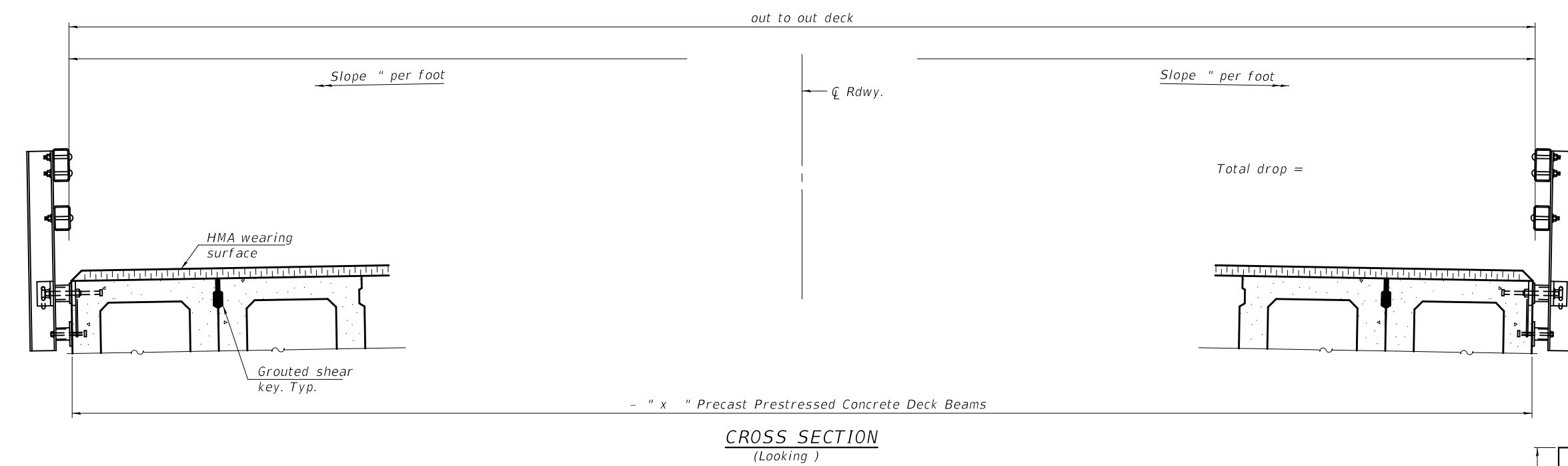
PDS-HMA-M-R34-0 2-17-2017

Notes:  
See sheet of for Superstructure Details  
and Bill of Material.

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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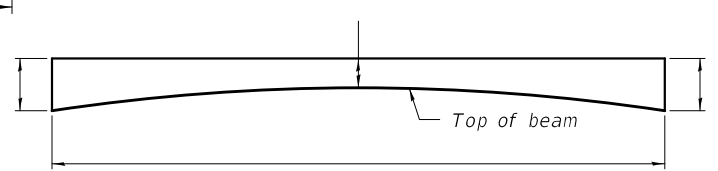
**SECTION A-A**  
(Dimensions are at Rt. L's)  
See sheet of for  
fabric bearing pad details.



**SECTION B-B**  
(Dimensions are at Rt. L's)  
\*1" Jt. shall be filled with non-shrink grout. 1"  
dimension may vary to accommodate tolerance  
in beam lengths.

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
HMA Wearing Surface	Tons	0

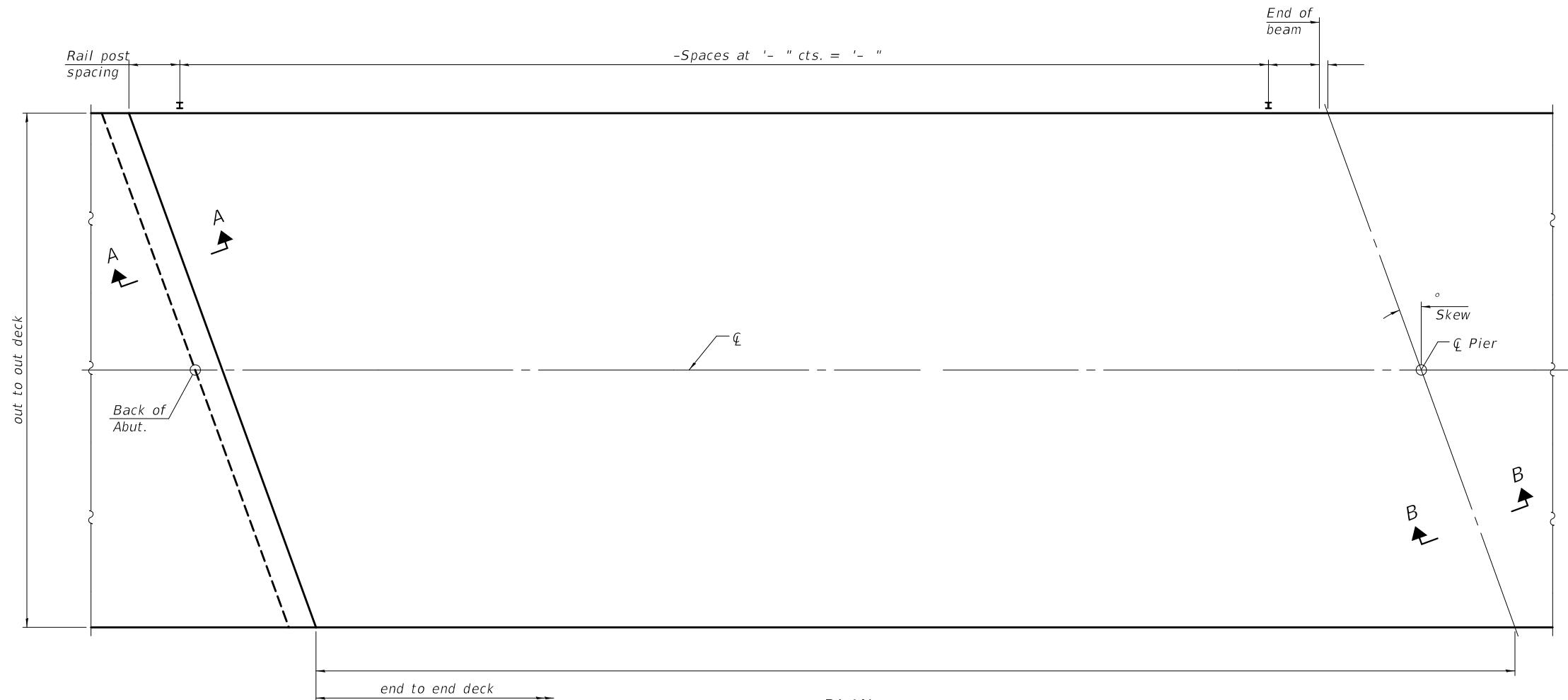


**ANTICIPATED HMA WEARING SURFACE PROFILE**  
(For information only)

Notes:  
See sheet of for Superstructure Details  
and Bill of Material.

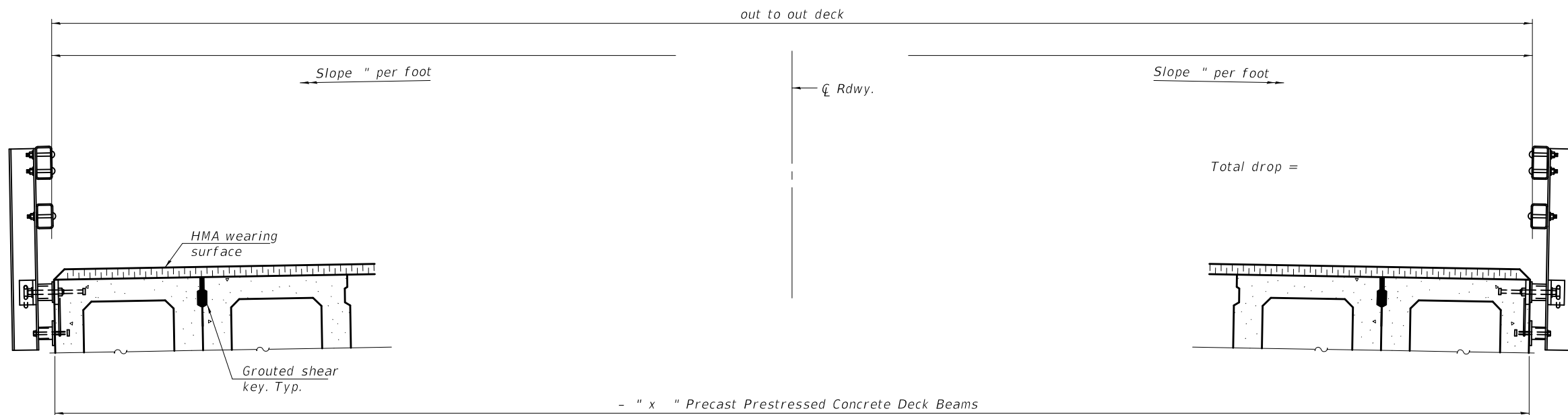
PDS-HMA-M-R34-L 2-17-2017

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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**PLAN**

**SECTION A-A**  
(Dimensions are at Rt. L's)  
See sheet of for  
fabric bearing pad details.

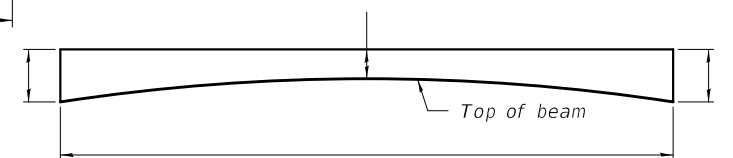


**CROSS SECTION**  
(Looking )

**SECTION B-B**  
(Dimensions are at Rt. L's)  
\*1\" Jt. shall be filled with non-shrink grout. 1\"  
dimension may vary to accommodate tolerance  
in beam lengths.

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
HMA Wearing Surface	Tons	0

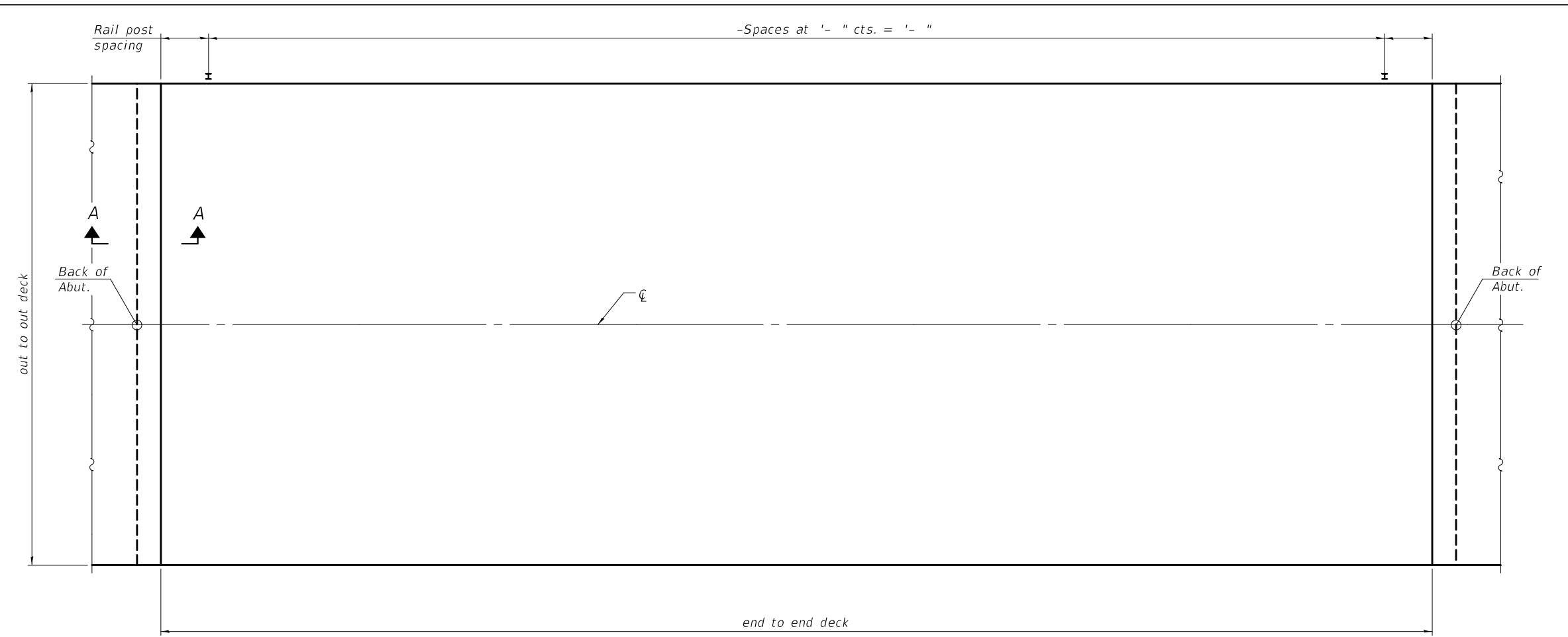


**ANTICIPATED HMA WEARING SURFACE PROFILE**  
(For information only)

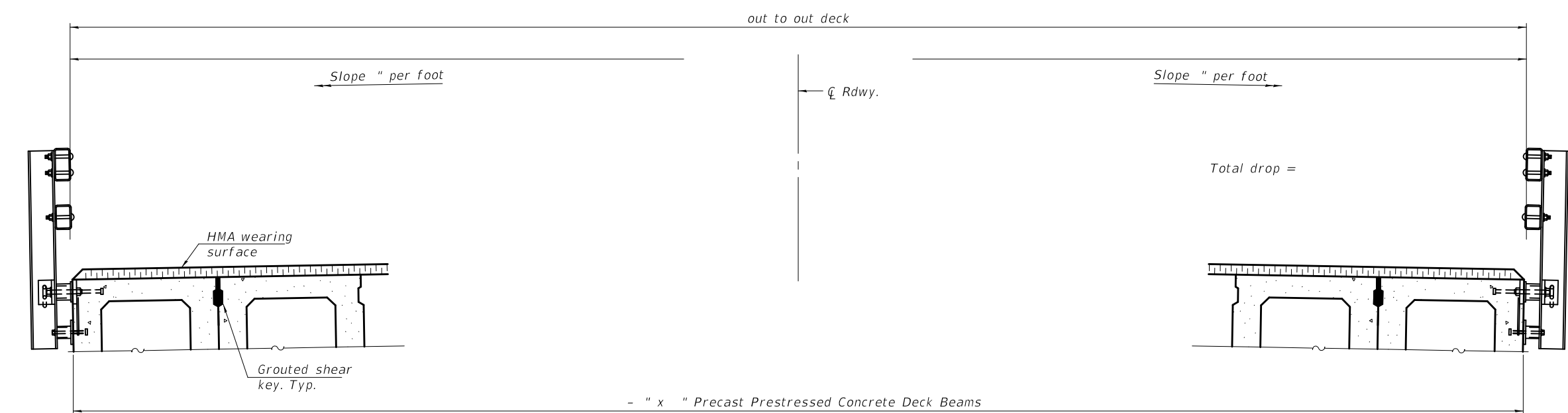
Notes:  
See sheet of for Superstructure Details  
and Bill of Material.

PDS-HMA-M-R34-R 2-17-2017

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLAN



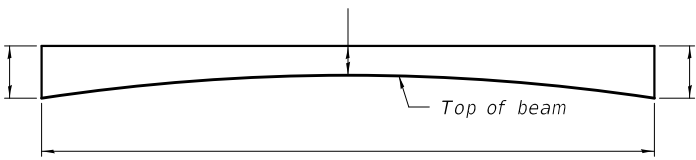
CROSS SECTION  
(Looking )

Notes:  
See sheet of for Superstructure Details and Bill of Material.  
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.

MINIMUM BAR LAP  
#4 bar = 2'-7"

BILL OF MATERIAL

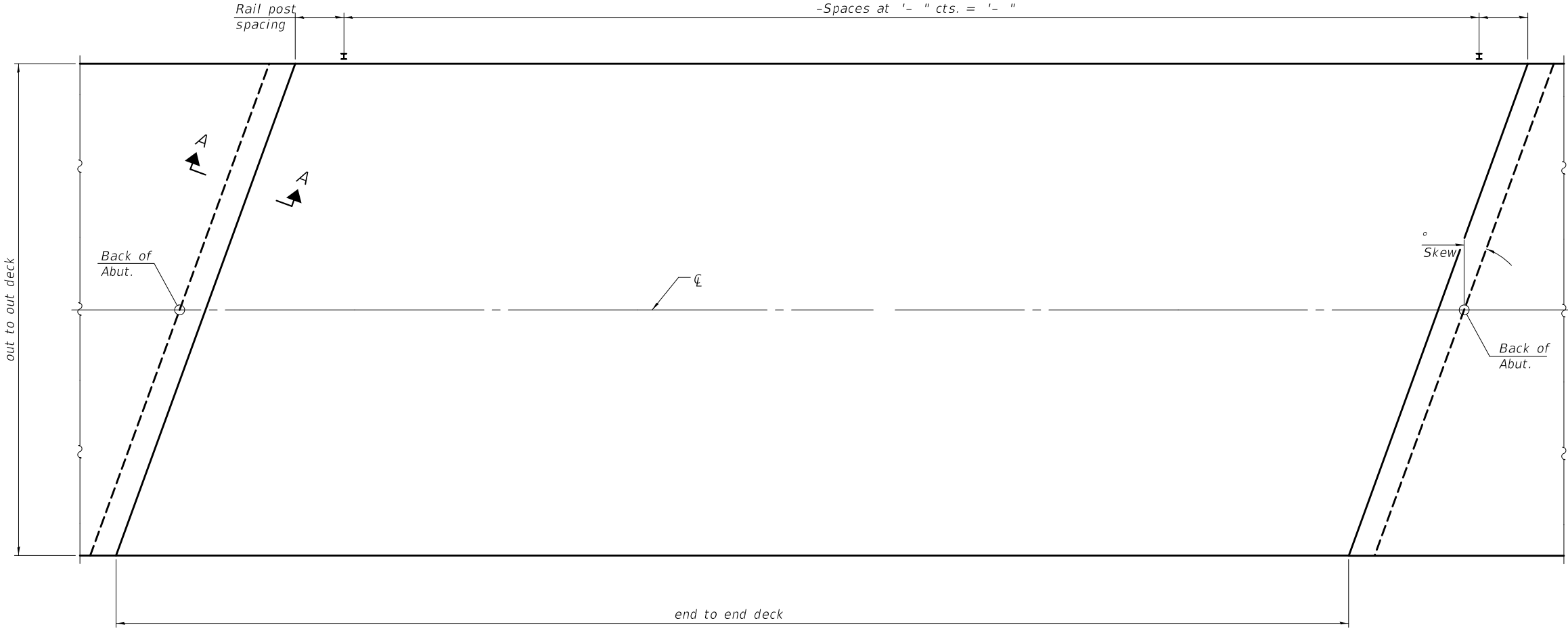
ITEM	UNIT	QUANTITY
HMA Wearing Surface	Tons	0



ANTICIPATED HMA WEARING SURFACE PROFILE  
(For information only)

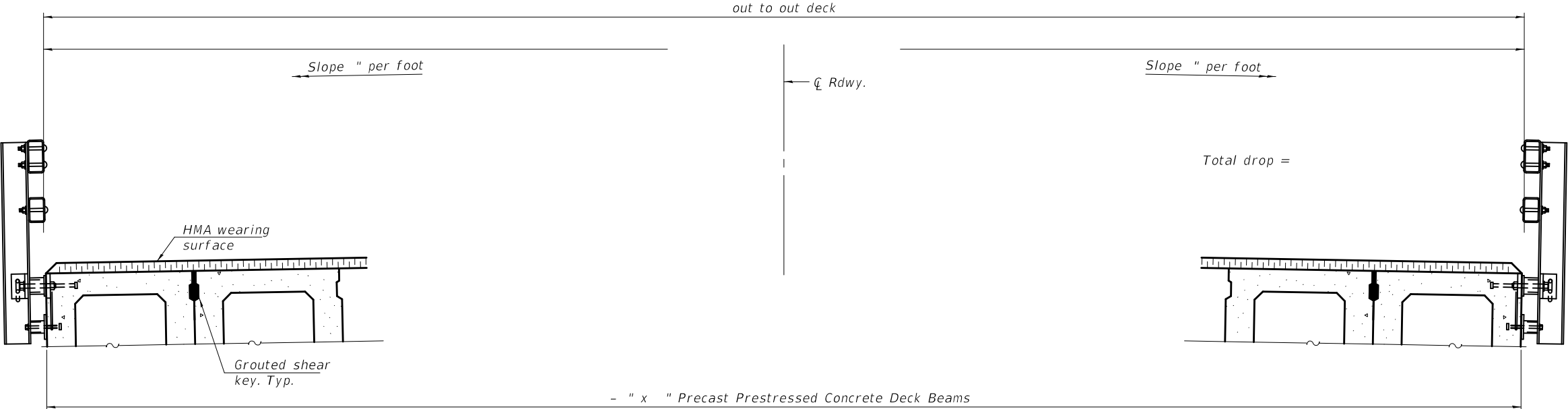
PDS-HMA-S-R34-0 2-17-2017

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLAN

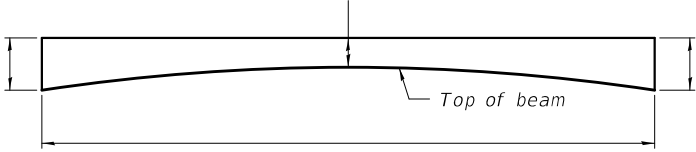
SECTION A-A  
(Dimensions are at Rt. L's)  
See sheet of for  
fabric bearing pad details.



CROSS SECTION  
(Looking )

Notes:  
See sheet of for Superstructure Details  
and Bill of Material.  
Bars indicated thus 20 x 2-#4 etc. indicates  
20 lines of bars with 2 lengths per line.  
Spacing of a(E) bars shall be measured along the  
CL of structure.

MINIMUM BAR LAP  
#4 bar = 2'-7"



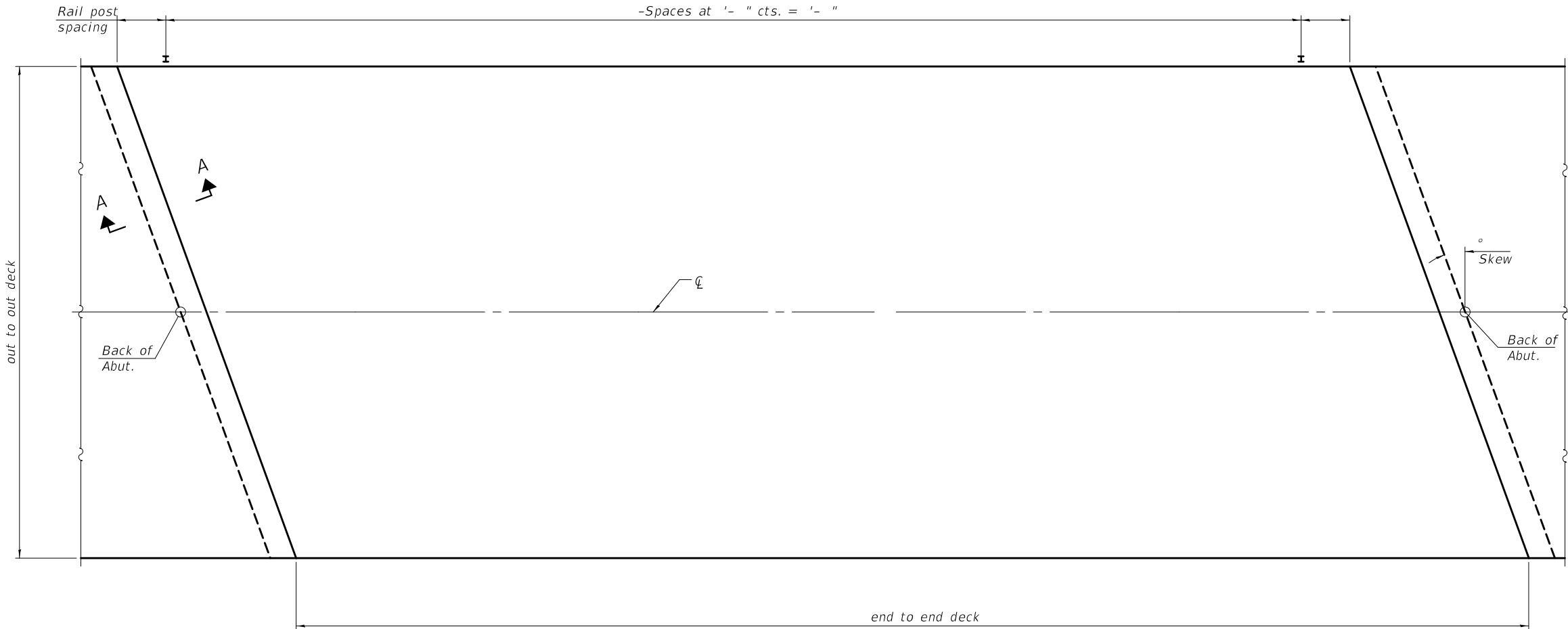
ANTICIPATED HMA WEARING SURFACE PROFILE  
(For information only)

BILL OF MATERIAL

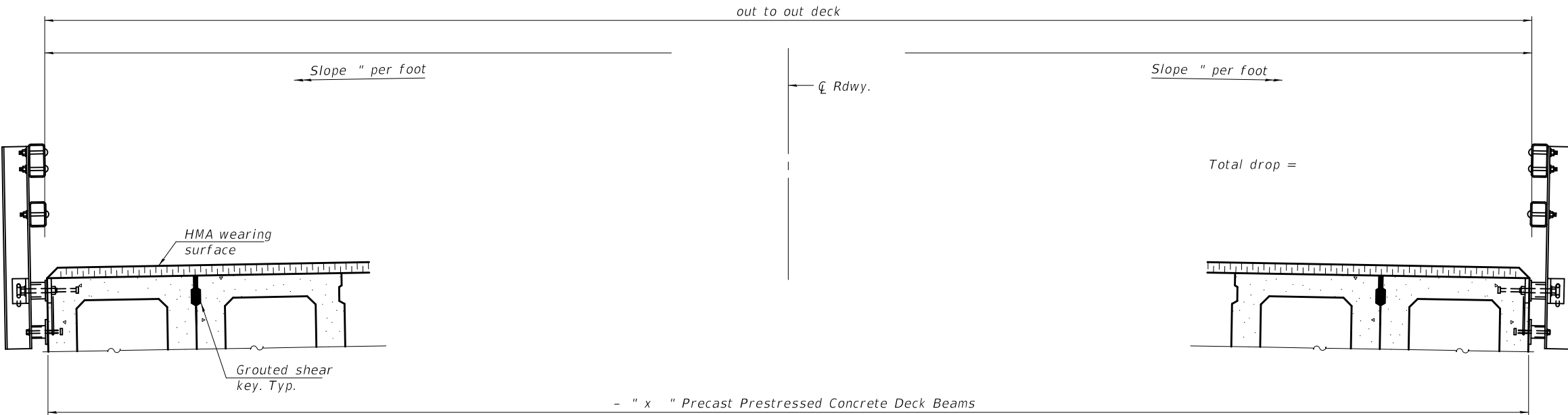
ITEM	UNIT	QUANTITY
HMA Wearing Surface	Tons	0

PDS-HMA-S-R34-L 2-17-2017

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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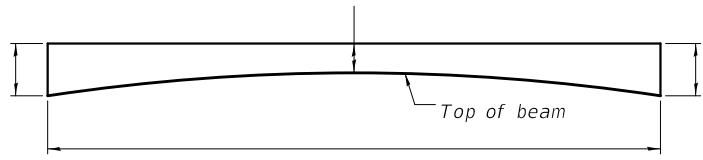
PLAN



CROSS SECTION  
(Looking )

Notes:  
See sheet of for Superstructure Details and Bill of Material.  
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.  
Spacing of a(E) bars shall be measured along the  $\phi$  of structure.

MINIMUM BAR LAP  
#4 bar = 2'-7"



ANTICIPATED HMA WEARING SURFACE PROFILE  
(For information only)

SECTION A-A  
(Dimensions are at Rt. L's)  
See sheet of for fabric bearing pad details.

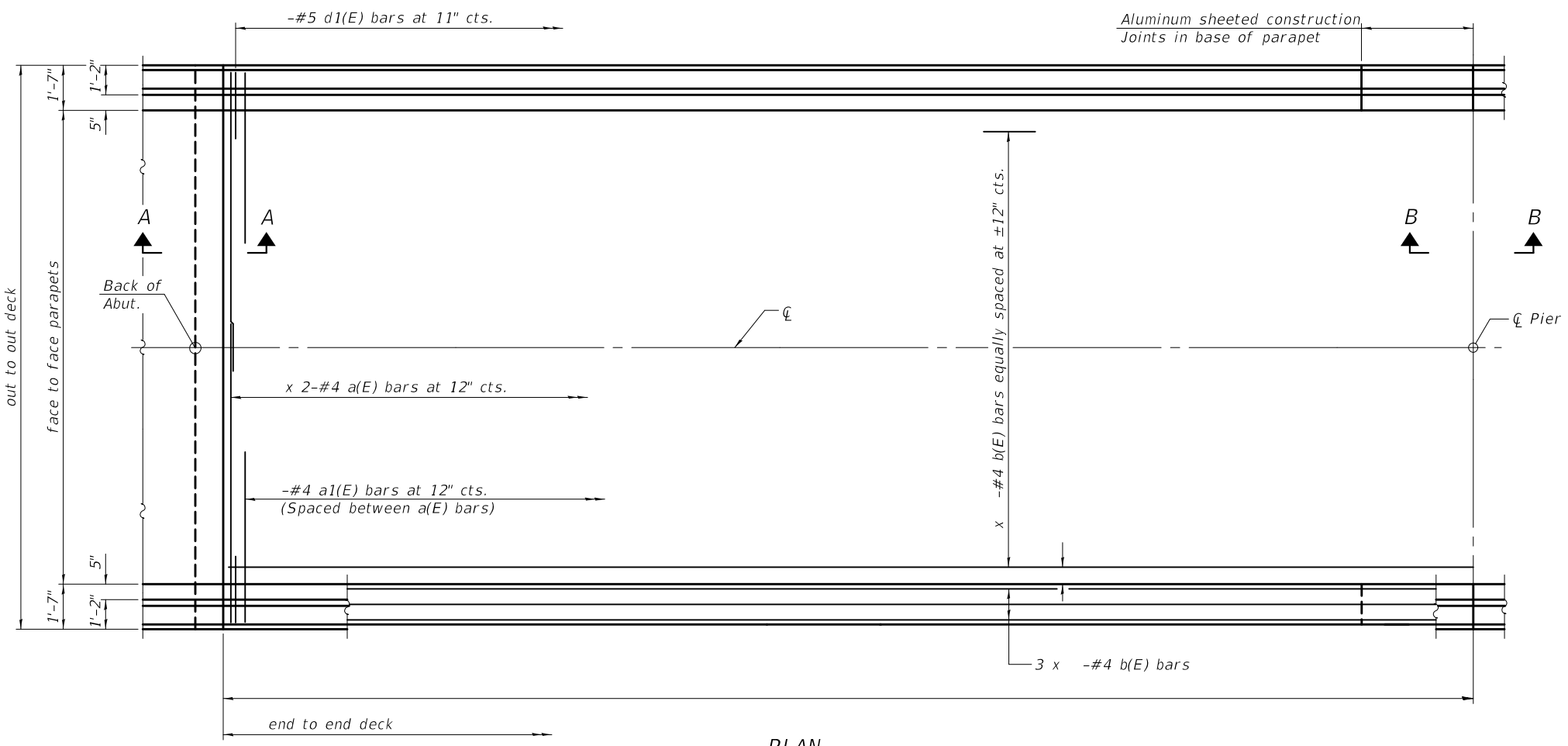
BILL OF MATERIAL

ITEM	UNIT	QUANTITY
HMA Wearing Surface	Tons	0

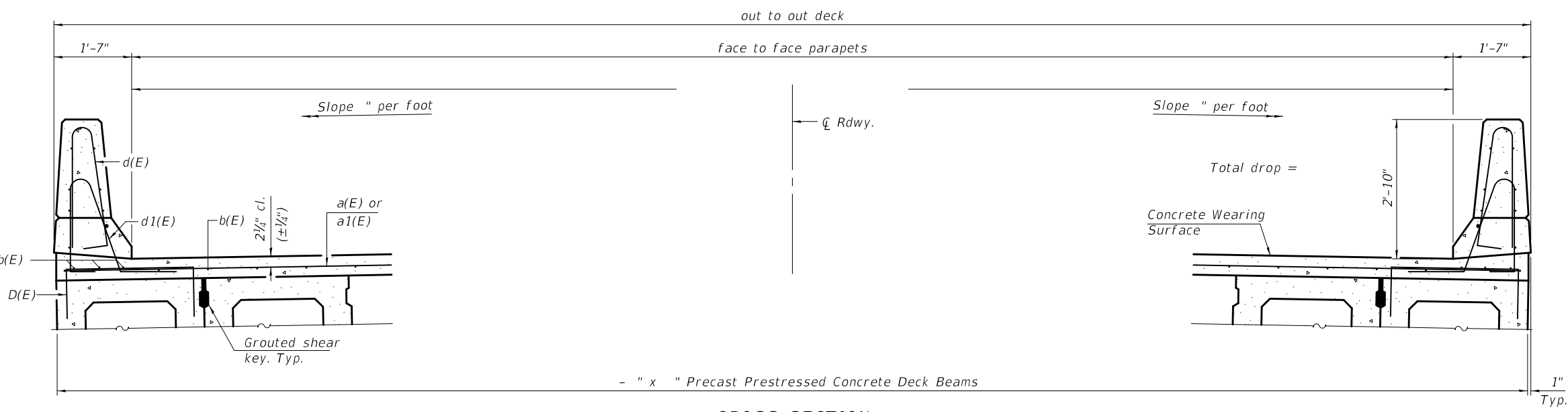
PDS-HMA-S-R34-R 2-17-2017

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE =	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT				





PLAN



CROSS SECTION  
(Looking )

SECTION A-A

Notes:  
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.  
See sheet of for fabric bearing pad details.

SECTION B-B

\*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

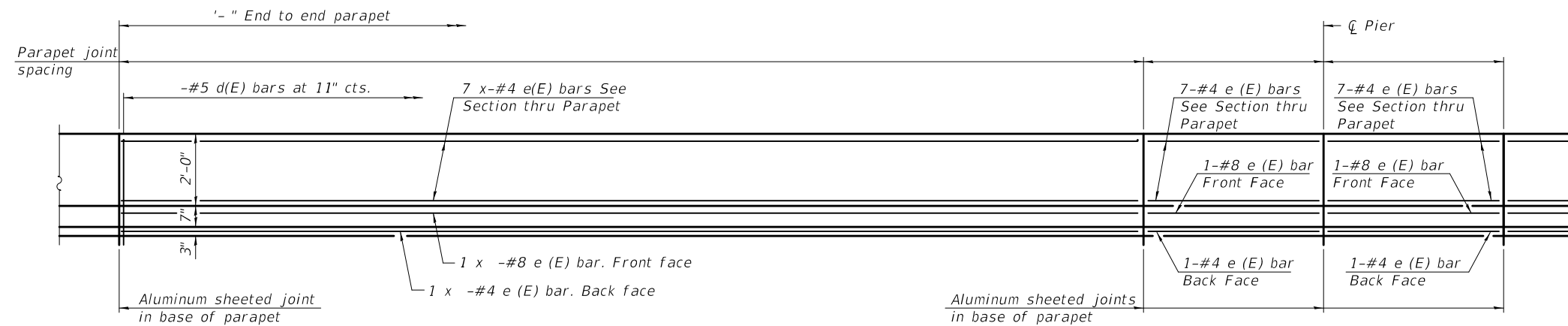
PDS-M-F-0

2-17-2017

Notes:  
See sheet of for Superstructure Details and Bill of Material.  
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.

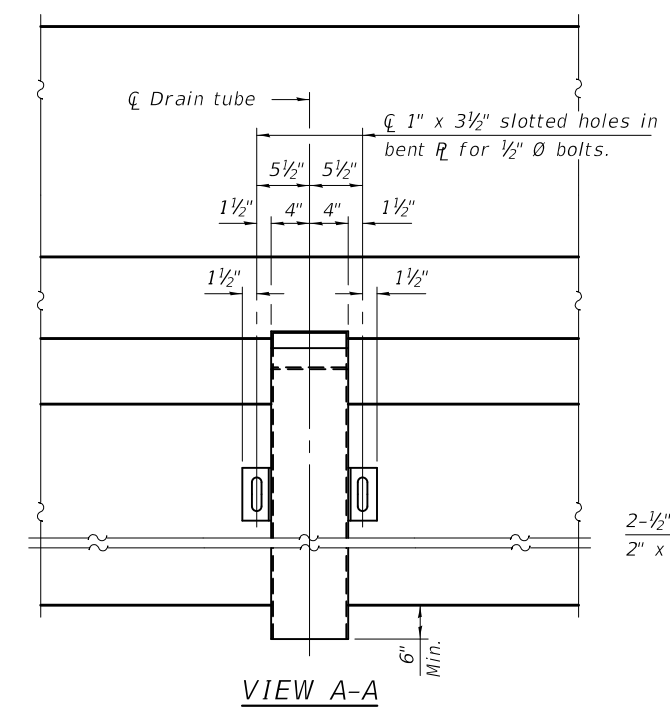
MINIMUM BAR LAP  
#4 bar = 2'-2"

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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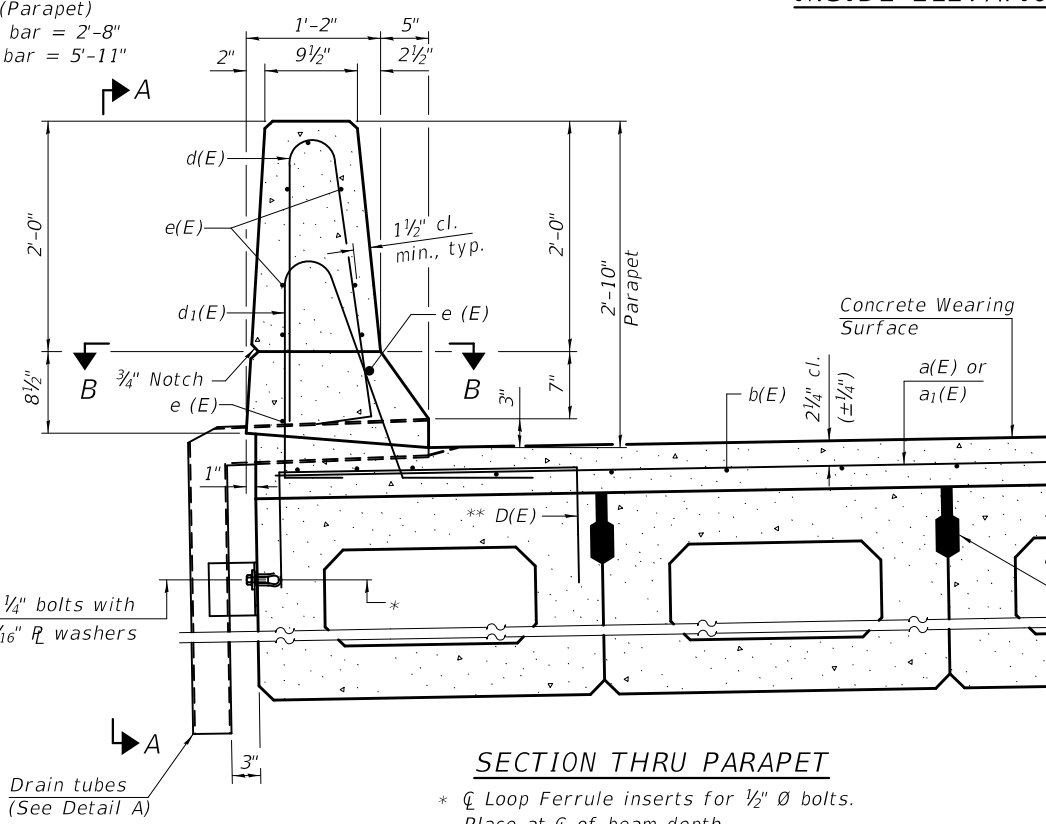


**MINIMUM BAR LAP**  
(Parapet)  
#4 bar = 2'-8"  
#8 bar = 5'-11"

**INSIDE ELEVATION OF PARAPET**

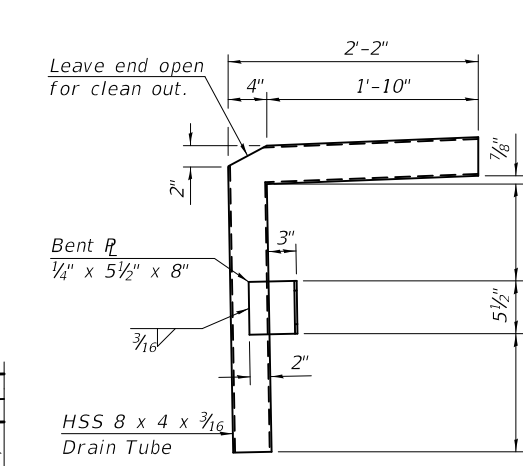


Note:  
All drain tubes and accessories shall be galvanized according to AASHTO M111 or M232, (as applicable).  
The cost of the drain tube assemblies and everything necessary for their installation is included with Concrete Superstructure.

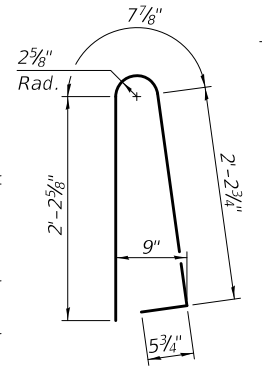


**SECTION THRU PARAPET**

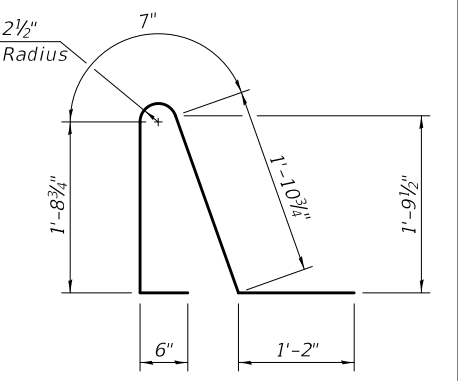
\*  $\varnothing$  Loop Ferrule inserts for  $\frac{1}{2}$ "  $\varnothing$  bolts. Place at  $\varnothing$  of beam depth.  
\*\* Place #4 D(E) bars at 9" cts. in fascia beam. D(E) bar included in cost of beam.



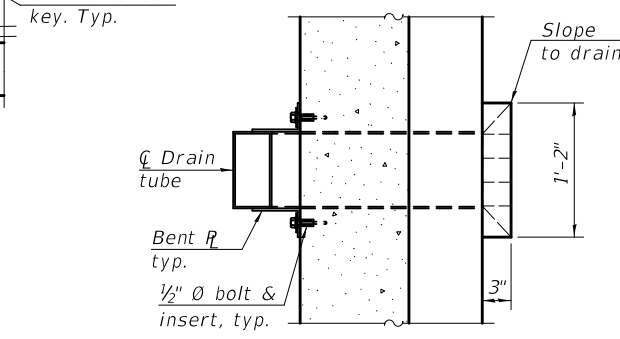
**DETAIL A**



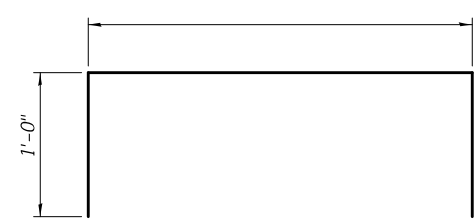
**BAR d(E)**



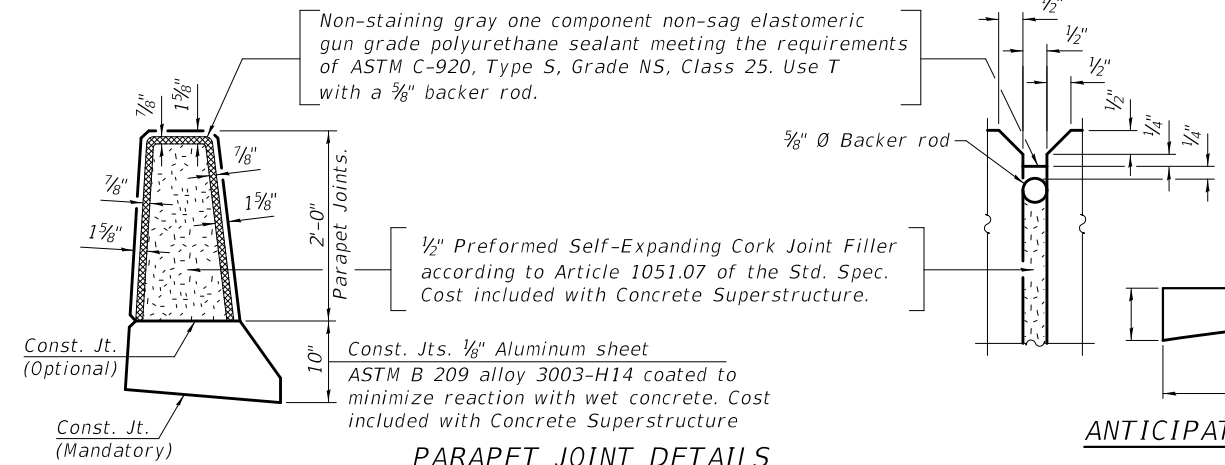
**BAR d1(E)**



**SECTION B-B**



**BAR D(E)**



**PARAPET JOINT DETAILS**

**ANTICIPATED CONCRETE WEARING SURFACE PROFILE**  
(For information only)

**SUPERSTRUCTURE BILL OF MATERIAL**

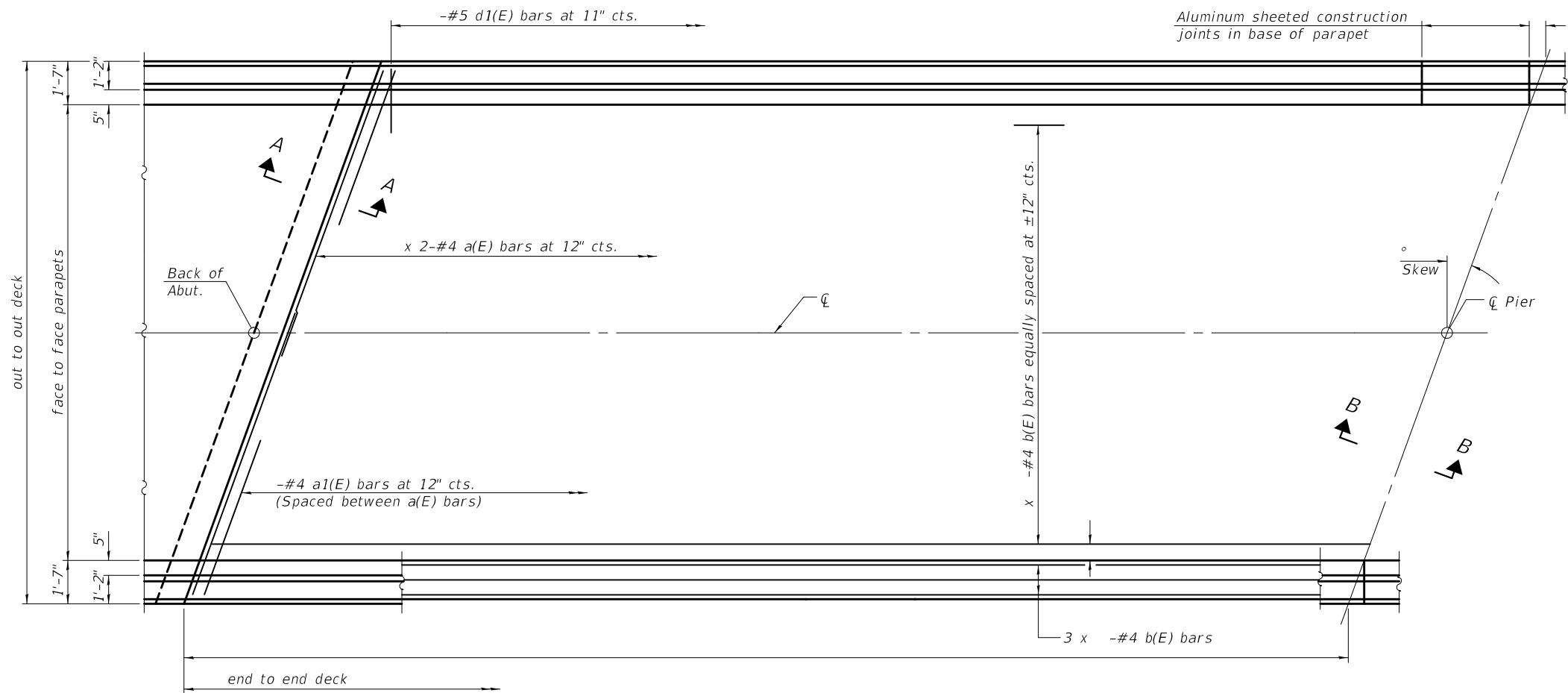
Bar	No.	Size	Length	Shape
a(E)		#4		—
a1(E)		#4	6'-0"	—
b(E)		#4		—
d(E)		#5	5'-7"	⌒
d1(E)		#5	5'-11"	⌒
e(E)		#4		—
e (E)		#8		—
e (E)		#4		—
e (E)		#8		—
e (E)		#4		—
Reinforcement Bars, Epoxy Coated			Pound	
Concrete Superstructure			Cu. Yd.	
Concrete Wearing Surface, 5"			Sq. Yd.	

Bars indicated thus 1 x -#4 etc. indicates 1 line of bars with lengths per line.

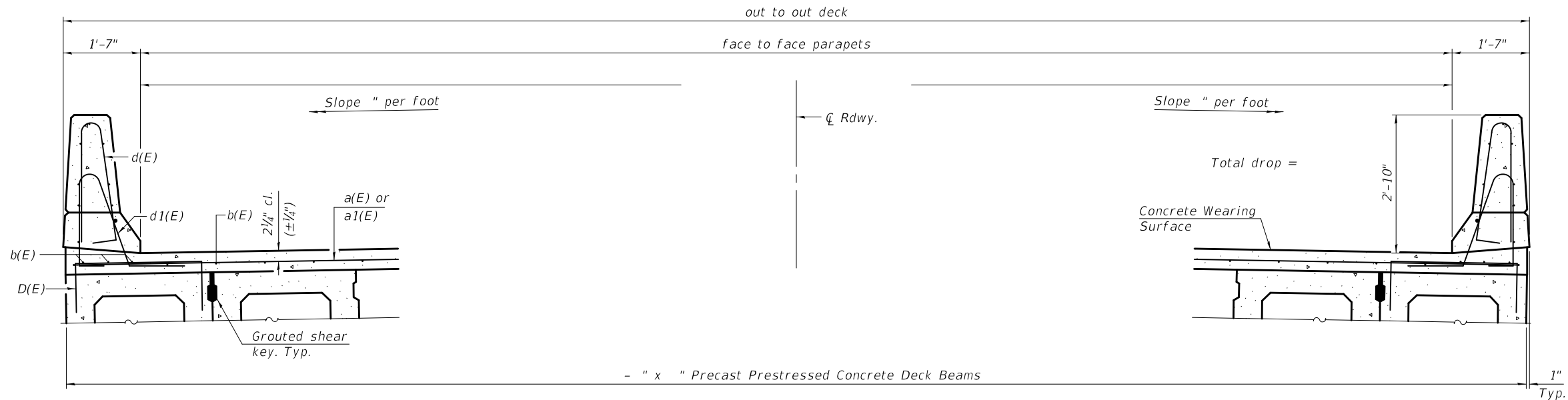
PDS-M-F-D

2-17-2017

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE DETAILS STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		CHECKED -	REVISED -									
	PLOT SCALE =	DRAWN -	REVISED -									
	PLOT DATE =	CHECKED -	REVISED -									
						CONTRACT NO.						
						ILLINOIS FED. AID PROJECT						



PLAN



CROSS SECTION  
(Looking )

Notes:  
See sheet of for Superstructure Details and Bill of Material.  
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.  
Spacing of a(E) and a1(E) bars shall be measured along the  $\mathcal{C}$  of structure.

MINIMUM BAR LAP  
#4 bar = 2'-2"

### SECTION A-A

(Dimensions are at Rt.  $\angle$ 's)

Notes:  
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.  
See sheet of for fabric bearing pad details.

### SECTION B-B

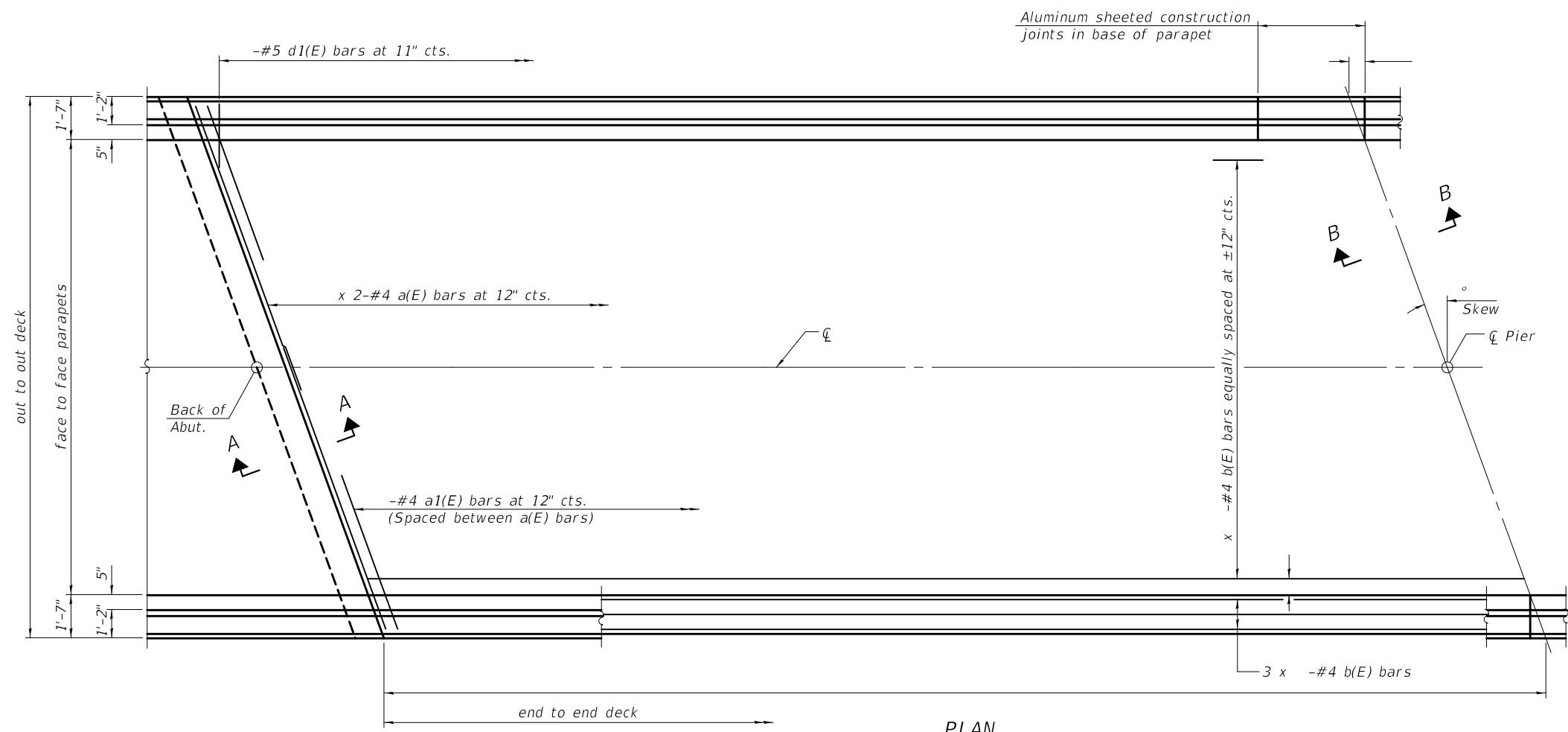
(Dimensions are at Rt.  $\angle$ 's)

\*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

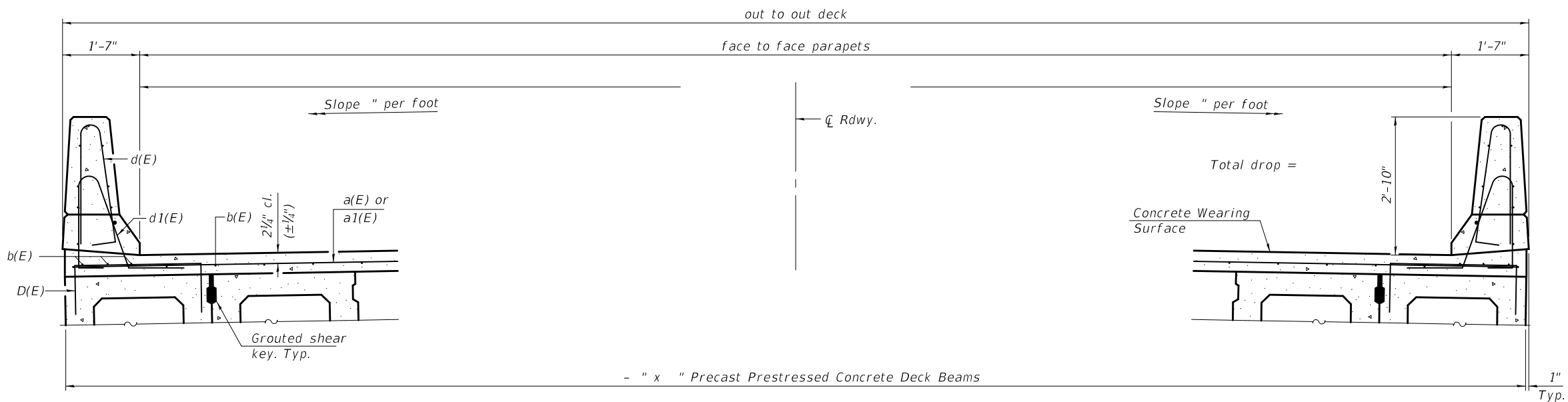
PDS-M-F-L

2-17-2017

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE =	CHECKED -	REVISED -					ILLINOIS FED. AID PROJECT		



PLAN



CROSS SECTION  
(Looking )

SECTION A-A

(Dimensions are at Rt. L's)

Notes:  
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.  
See sheet of for fabric bearing pad details.

SECTION B-B

(Dimensions are at Rt. L's)

\*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

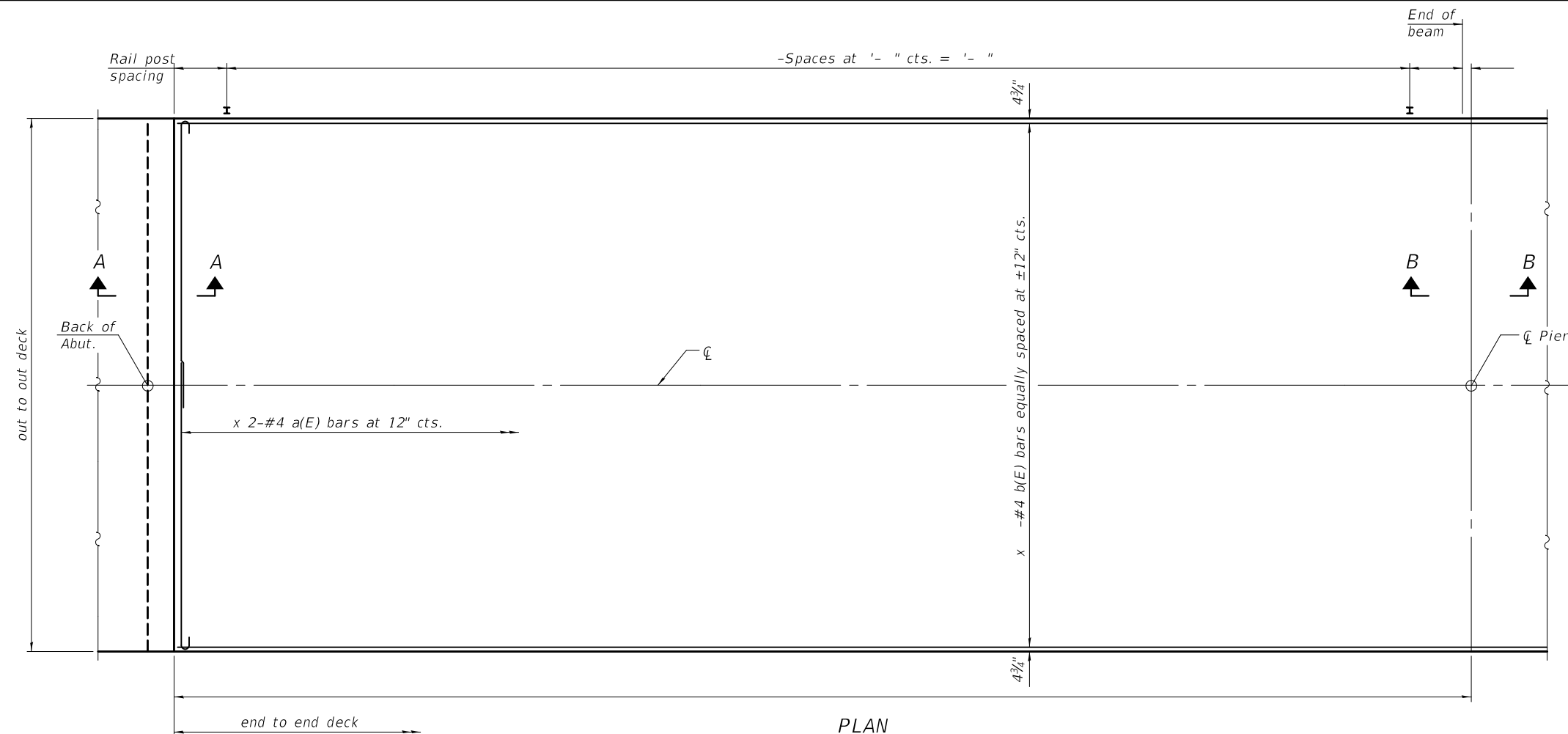
Notes:  
See sheet of for Superstructure Details and Bill of Material.  
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.  
Spacing of a(E) and a1(E) bars shall be measured along the C/L of structure.

MINIMUM BAR LAP  
#4 bar = 2'-2"

PDS-M-F-R

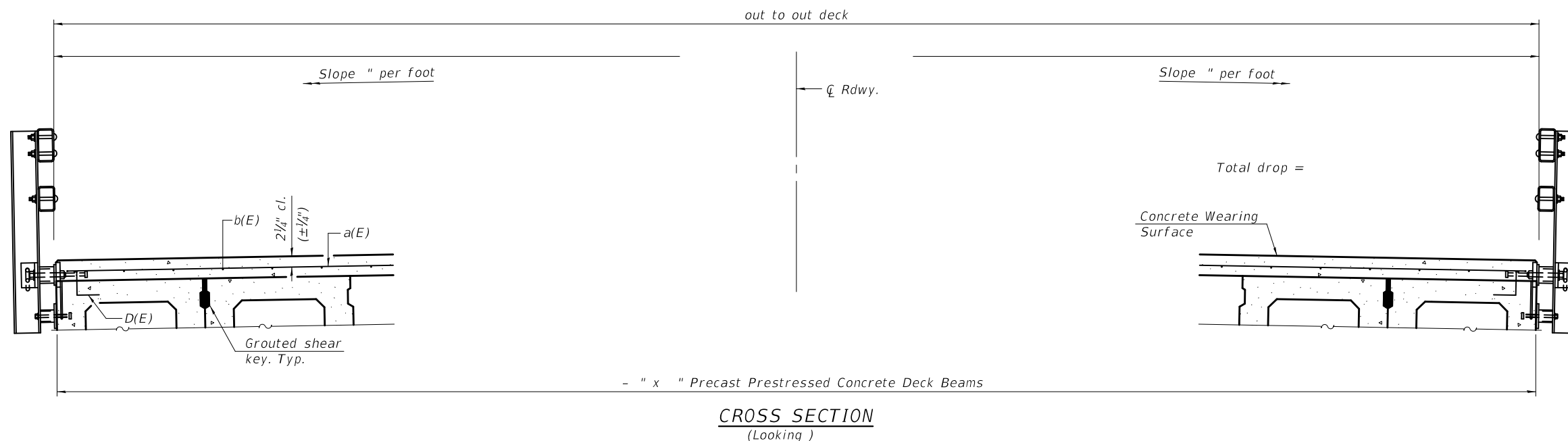
2-17-2017

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	PLOT DATE =	CHECKED -	REVISED -					ILLINOIS FED. AID PROJECT		



### SECTION A-A

Notes:  
 All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.  
 See sheet of for fabric bearing pad details.



### SECTION B-B

\*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

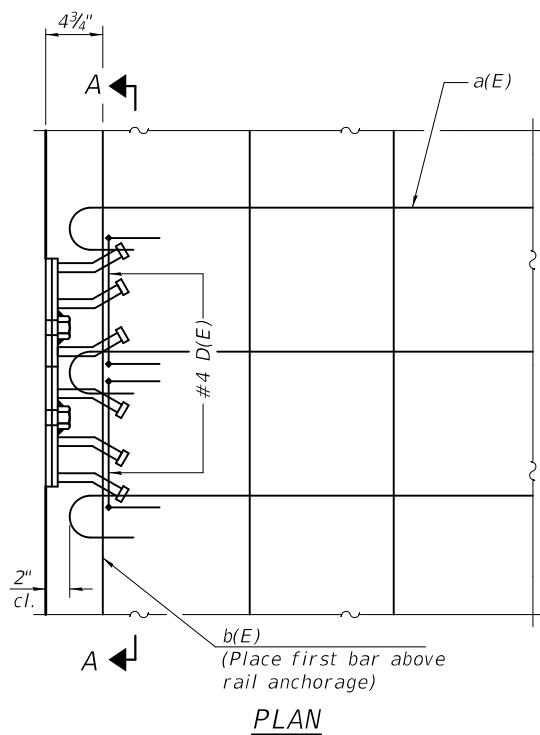
Notes:  
 See sheet of for Superstructure Details and Bill of Material.  
 Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.

MINIMUM BAR LAP  
 #4 bar = 2'-2"

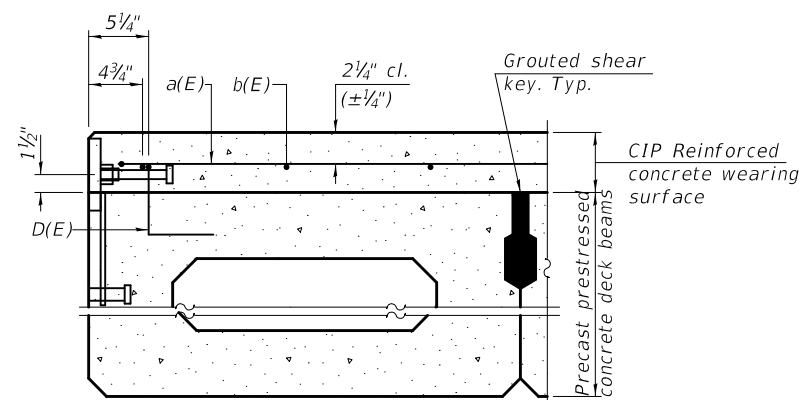
PDS-M-R34-0

2-17-2017

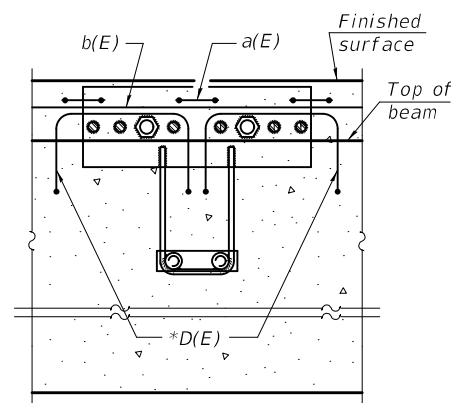
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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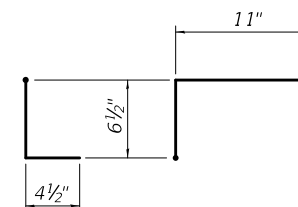
Notes:  
Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam.



SECTION THRU FASCIA BEAM

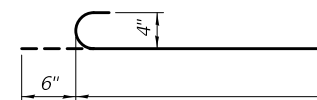


SECTION A-A

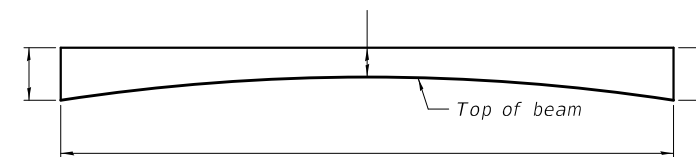


BAR D(E)

\* Place 2-#4 D(E) bars in beam at each post location as shown. D(E) bar included in cost of beam.



BAR a(E)



ANTICIPATED CONCRETE WEARING SURFACE PROFILE  
(For information only)

SUPERSTRUCTURE  
BILL OF MATERIAL

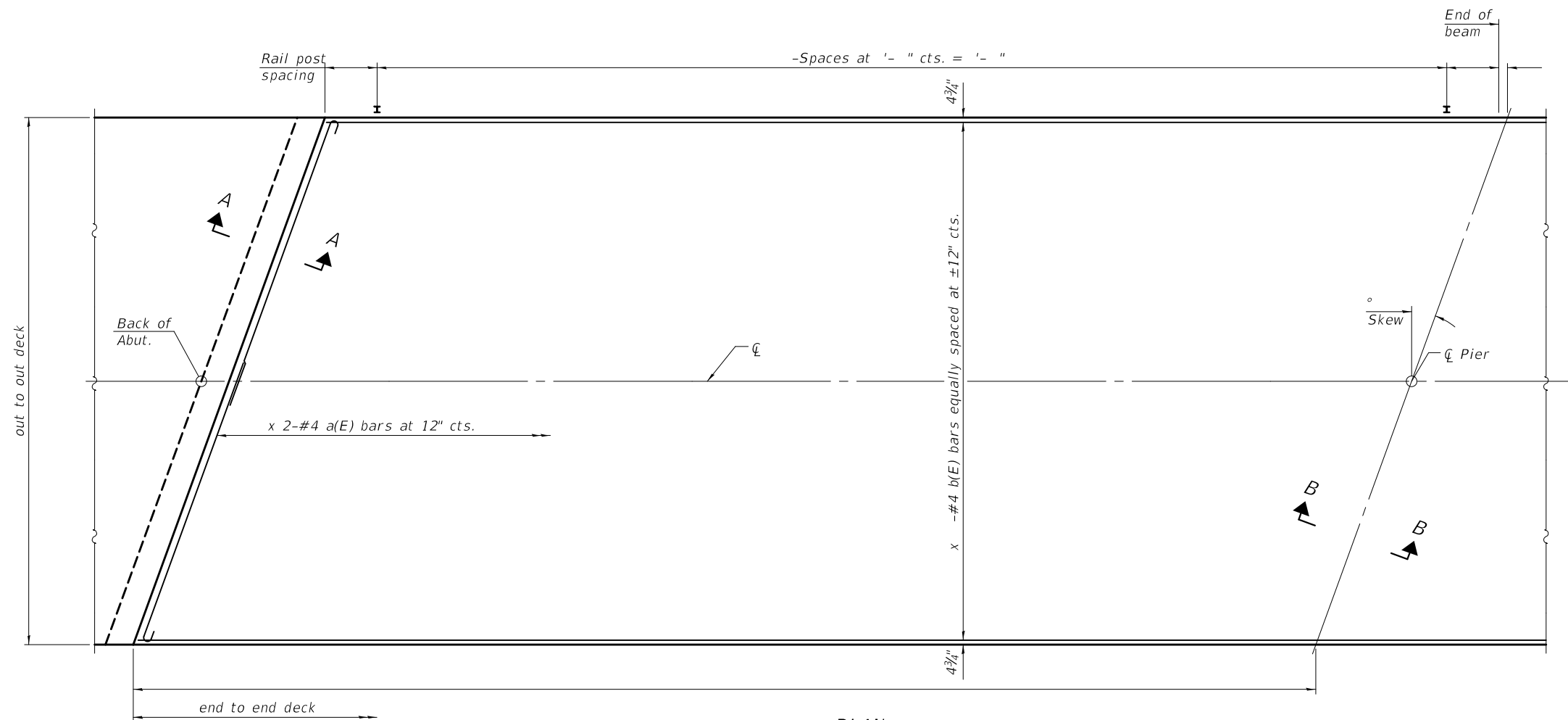
Bar	No.	Size	Length	Shape
a(E)		#4		
b(E)		#4		
Reinforcement Bars, Epoxy Coated			Pound	
Concrete Wearing Surface, 5"			Sq. Yd.	

Bars indicated thus 1 x -#4 etc. indicates 1 line of bars with lengths per line.

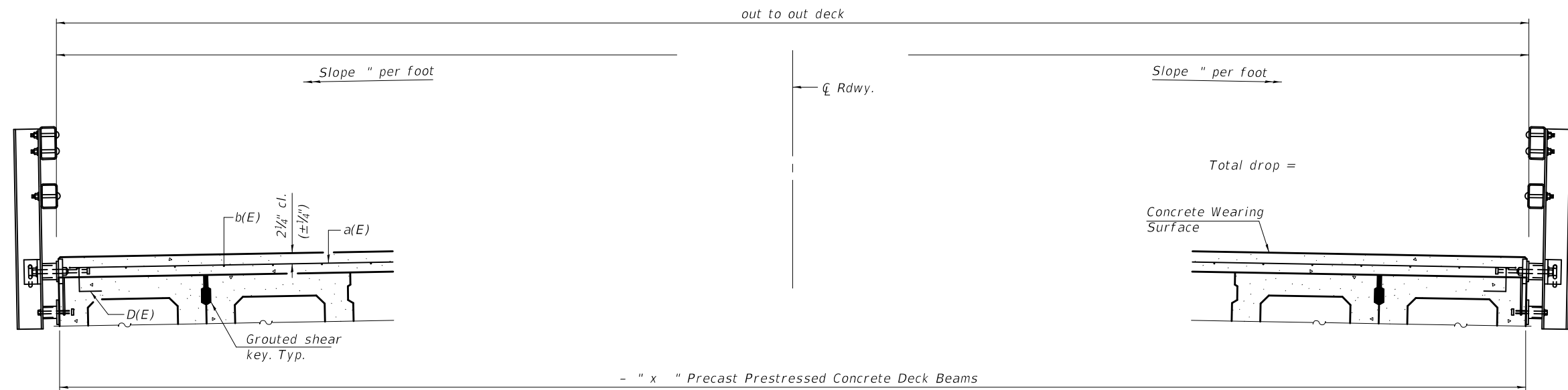
PDS-M-R34-D

2-17-2017

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE DETAILS STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT SCALE =	DRAWN -	REVISED -			CONTRACT NO.				
	PLOT DATE =	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT				



PLAN



CROSS SECTION  
(Looking )

Notes:  
See sheet of for Superstructure Details and Bill of Material.  
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.  
Spacing of a(E) bars shall be measured along the ℄ of structure.

MINIMUM BAR LAP  
#4 bar = 2'-2"

SECTION A-A

(Dimensions are at Rt. L's)

Notes:  
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.  
See sheet of for fabric bearing pad details.

SECTION B-B

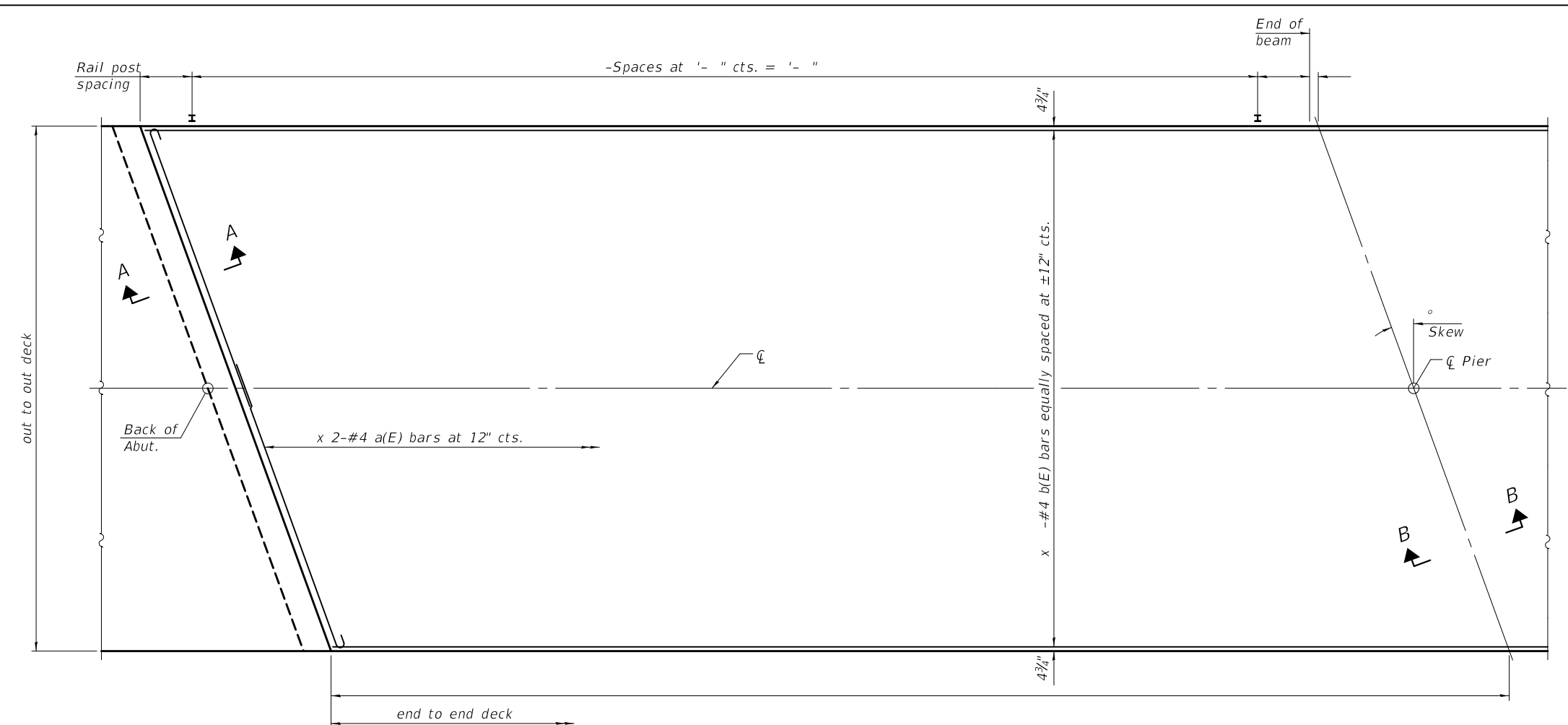
(Dimensions are at Rt. L's)

\*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

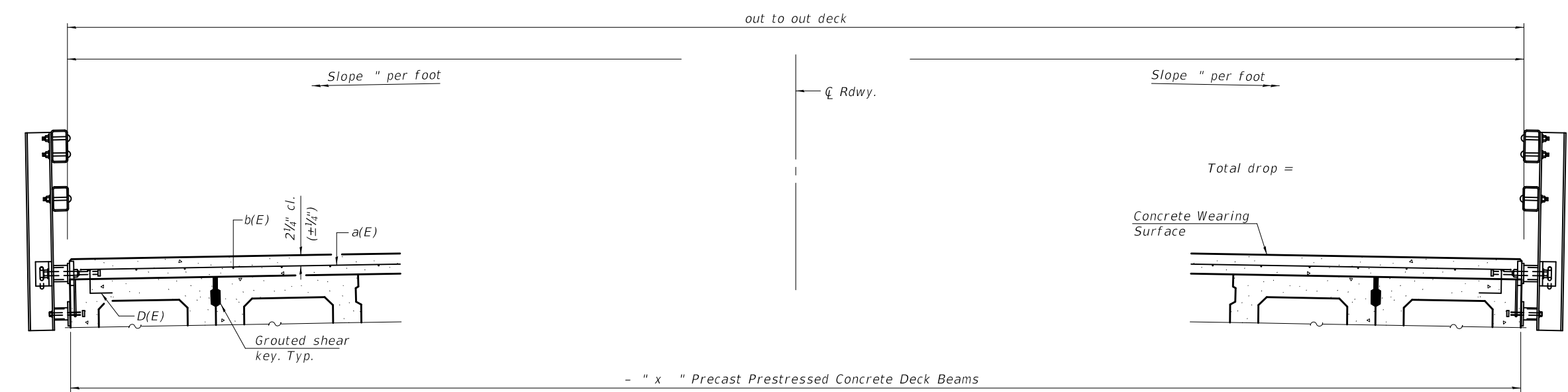
PDS-M-R34-L

2-17-2017

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	PLOT SCALE =	DRAWN -	REVISED -					CONTRACT NO.		
	PLOT DATE =	CHECKED -	REVISED -					ILLINOIS FED. AID PROJECT		



PLAN



CROSS SECTION  
(Looking )

SECTION A-A

(Dimensions are at Rt. L's)

Notes:  
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.  
See sheet of for fabric bearing pad details.

SECTION B-B

(Dimensions are at Rt. L's)

\*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

Notes:  
See sheet of for Superstructure Details and Bill of Material.  
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.  
Spacing of a(E) bars shall be measured along the Cl of structure.

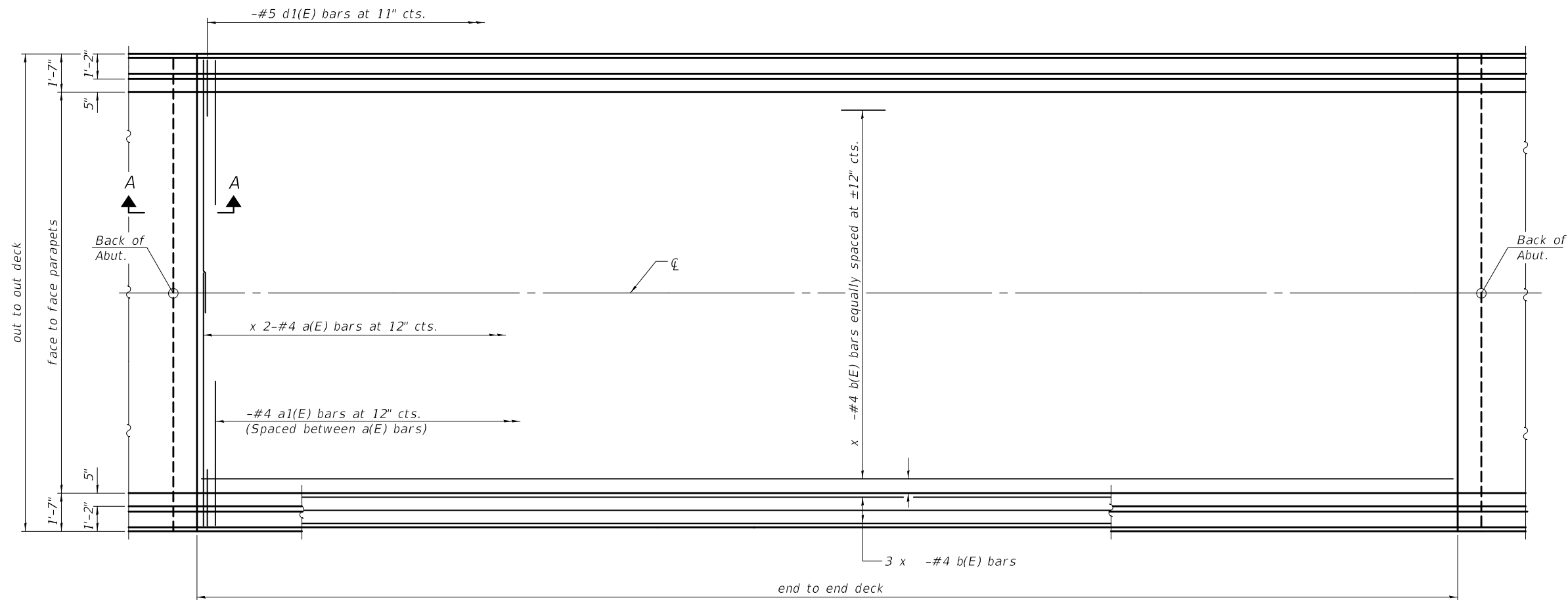
MINIMUM BAR LAP  
#4 bar = 2'-2"

PDS-M-R34-R

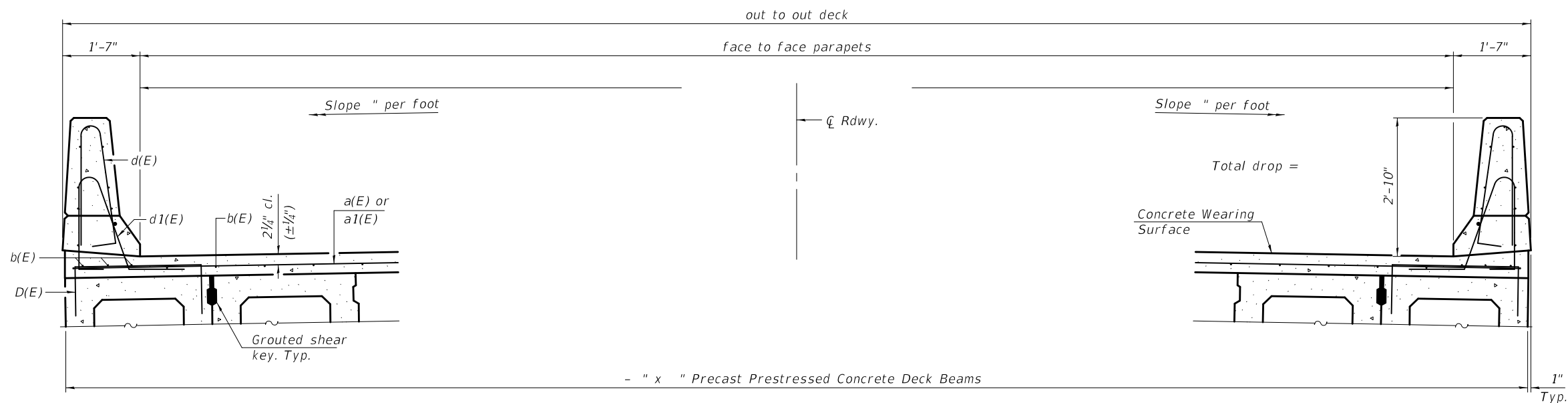
2-17-2017

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE =	CHECKED -	REVISED -					ILLINOIS FED. AID PROJECT		





**PLAN**



**CROSS SECTION**  
(Looking )

Notes:  
See sheet of for Superstructure Details and Bill of Material.  
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.

**MINIMUM BAR LAP**  
#4 bar = 2'-2"

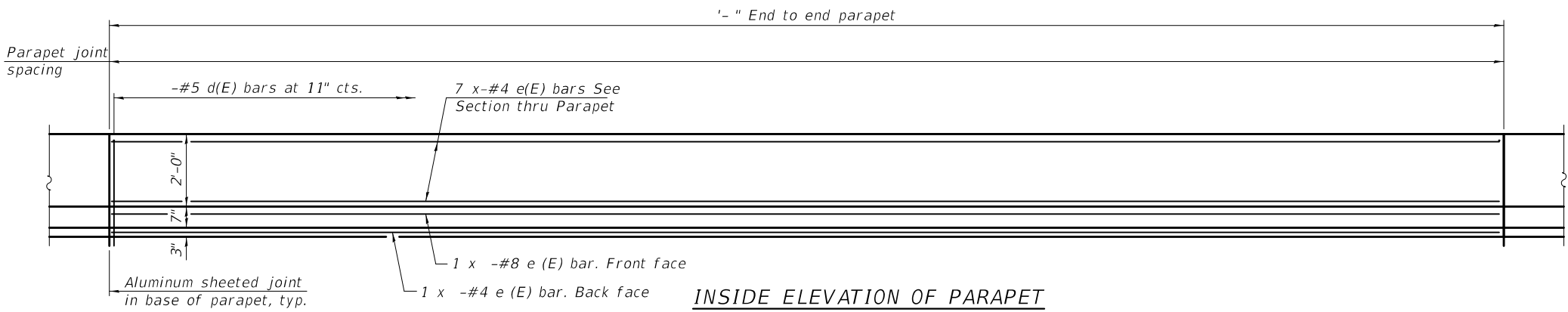
**SECTION A-A**

Notes:  
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.  
See sheet of for fabric bearing pad details.

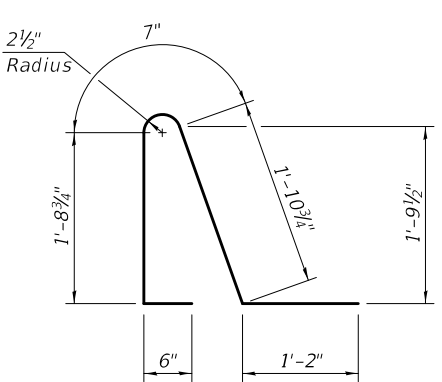
PDS-S-F-0

2-17-2017

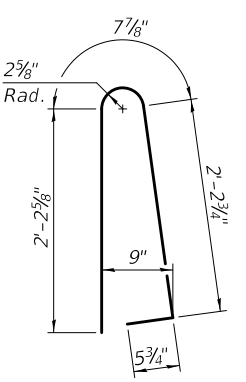
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT SCALE =	DRAWN -	REVISED -					CONTRACT NO.		
	PLOT DATE =	CHECKED -	REVISED -					ILLINOIS FED. AID PROJECT		



INSIDE ELEVATION OF PARAPET



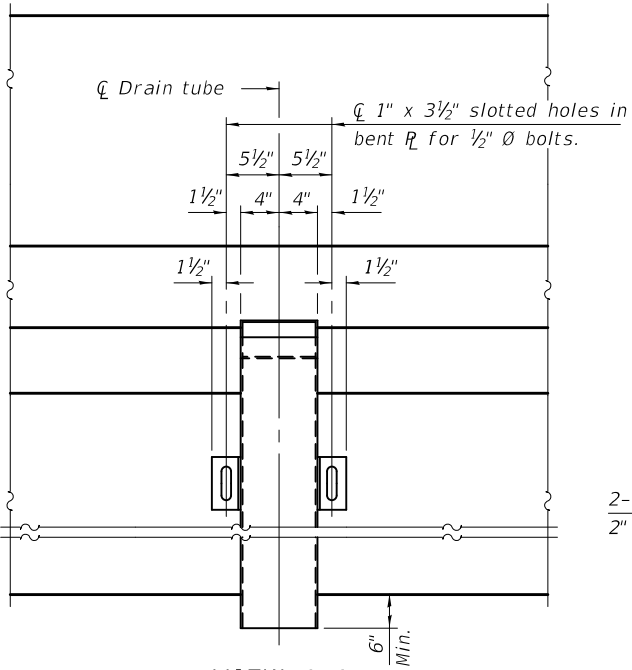
BAR d1(E)



BAR d(E)

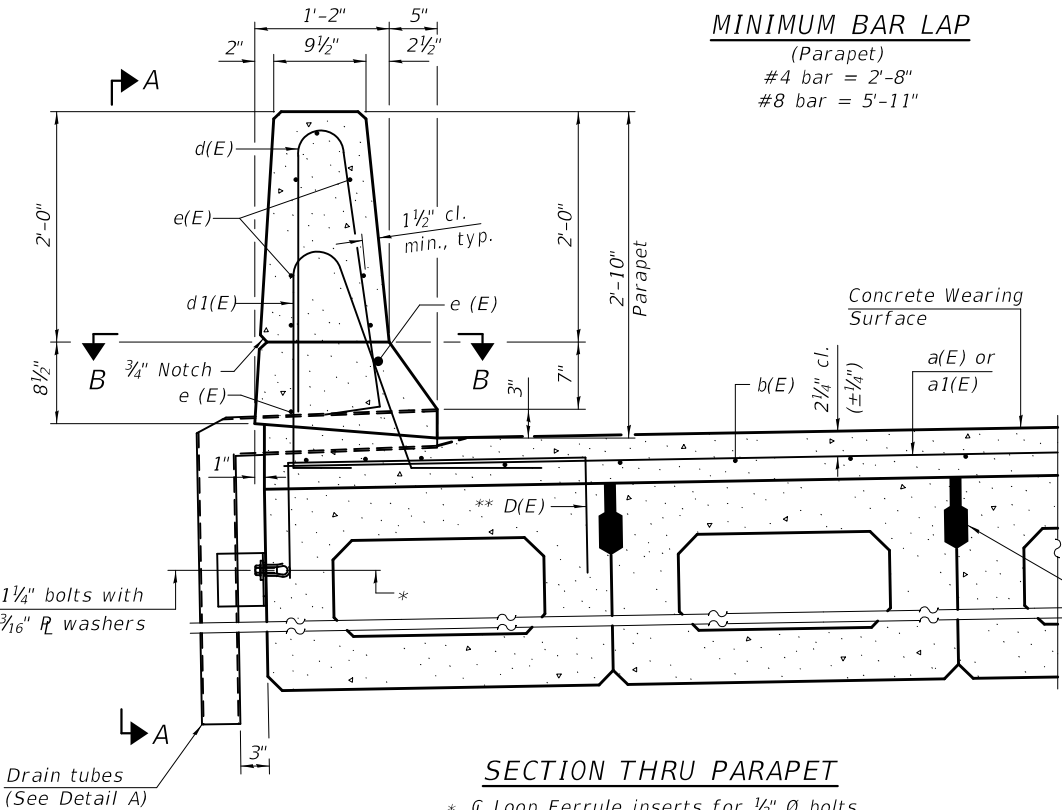
MINIMUM BAR LAP

(Parapet)  
#4 bar = 2'-8"  
#8 bar = 5'-11"



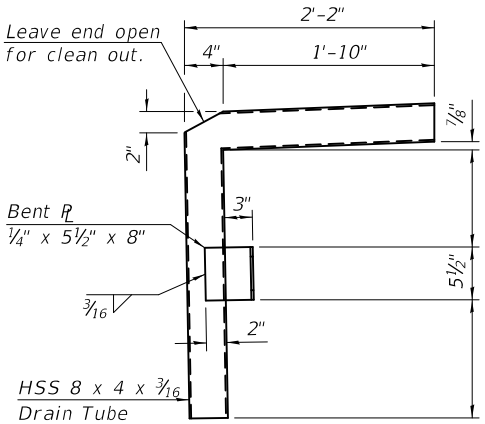
VIEW A-A

Note:  
All drain tubes and accessories shall be galvanized according to AASHTO M111 or M232, (as applicable).  
The cost of the drain tube assemblies and everything necessary for their installation is included with Concrete Superstructure.

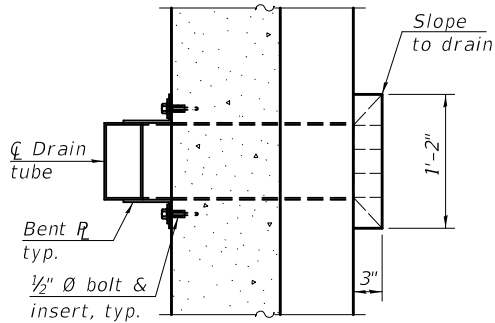


SECTION THRU PARAPET

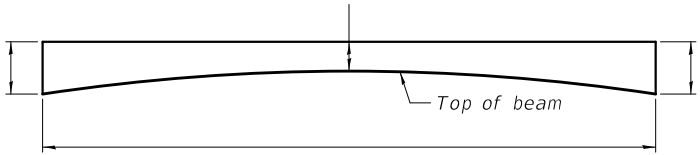
\* Loop Ferrule inserts for 1/2 inch diameter bolts. Place at center of beam depth.  
\*\* Place #4 D(E) bars at 9 inches center-to-center in fascia beam. D(E) bar included in cost of beam.



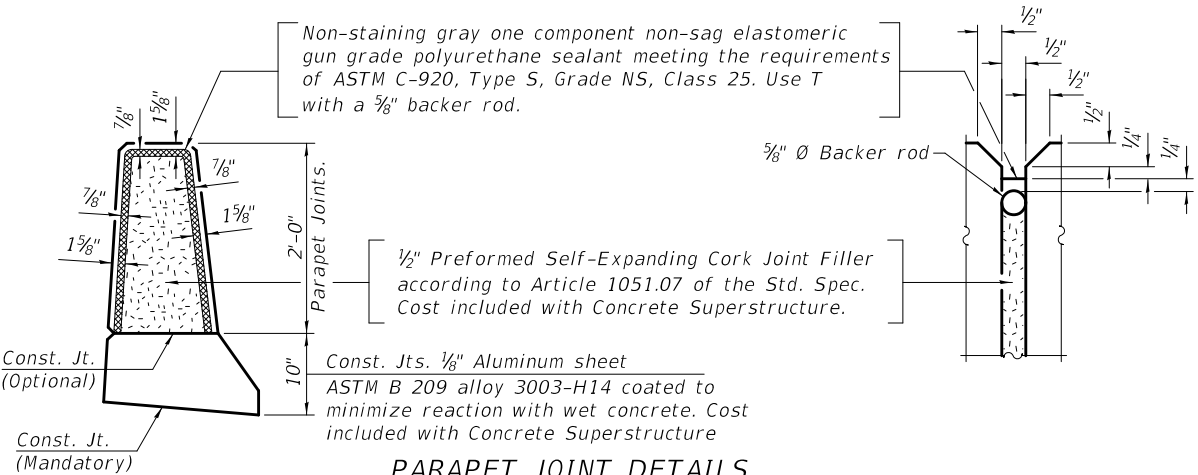
DETAIL A



SECTION B-B



ANTICIPATED CONCRETE WEARING SURFACE PROFILE  
(For information only)



PARAPET JOINT DETAILS

SUPERSTRUCTURE  
BILL OF MATERIAL

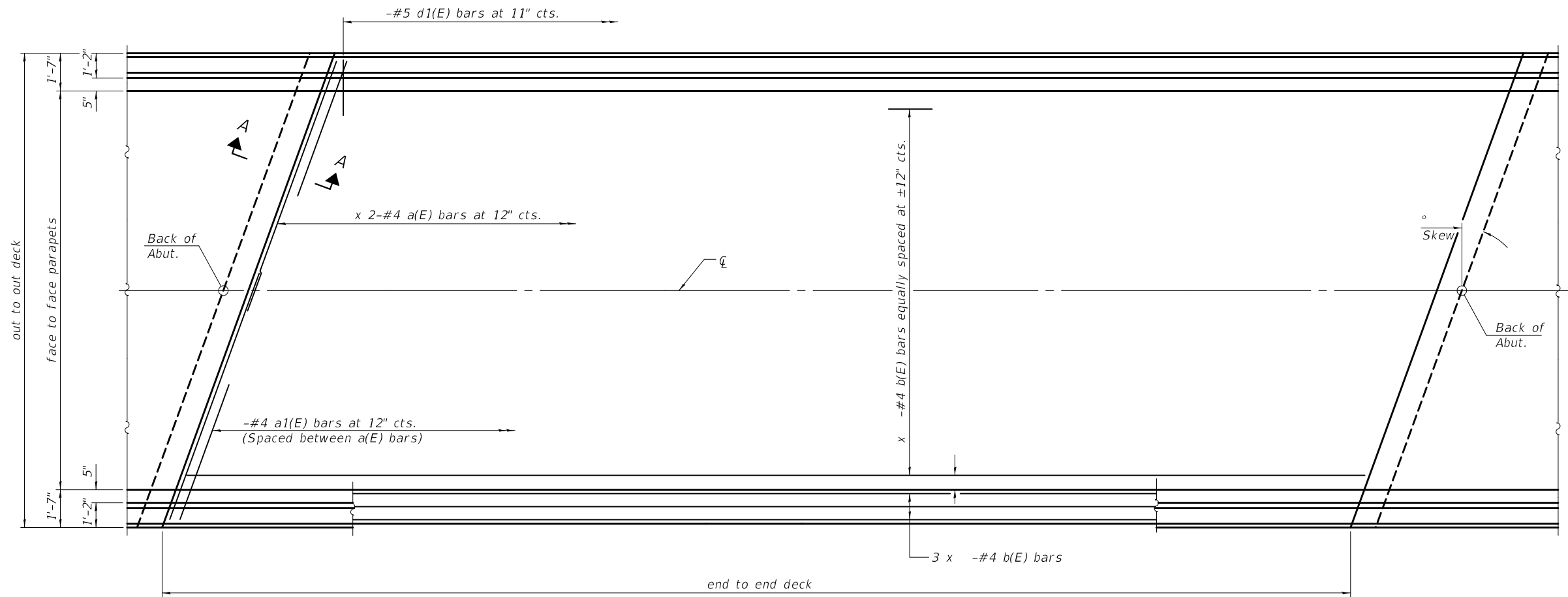
Bar	No.	Size	Length	Shape
a(E)		#4		—
a1(E)		#4	6'-0"	—
b(E)		#4		—
d(E)		#5	5'-7"	⌒
d1(E)		#5	5'-11"	⌒
e(E)		#4		—
e(E)		#8		—
e(E)		#4		—
Reinforcement Bars, Epoxy Coated			Pound	
Concrete Superstructure			Cu. Yd.	
Concrete Wearing Surface, 5"			Sq. Yd.	

Bars indicated thus 1 x -#4 etc. indicates 1 line of bars with lengths per line.

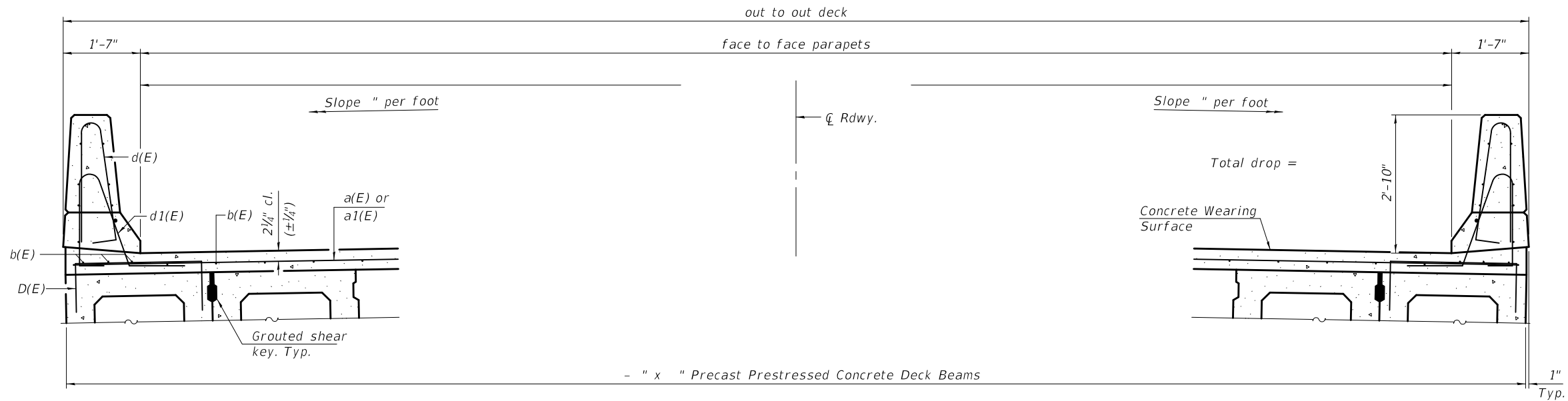
PDS-S-F-D

2-17-2017

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		CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT				



**PLAN**



**CROSS SECTION**  
(Looking )

Notes:  
See sheet of for Superstructure Details and Bill of Material.  
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.  
Spacing of a(E) and a1(E) bars shall be measured along the  $\phi$  of structure.

**MINIMUM BAR LAP**  
#4 bar = 2'-2"

**SECTION A-A**

(Dimensions are at Rt. L's)

Notes:

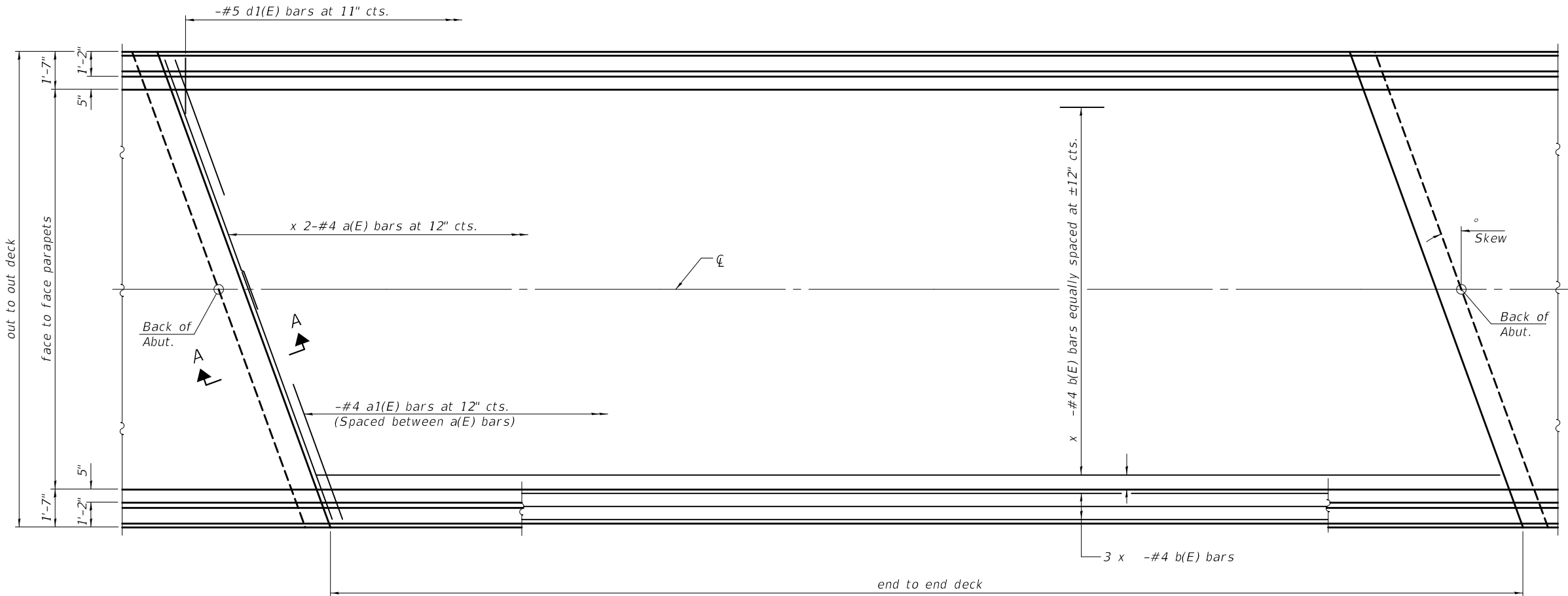
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.

See sheet of for fabric bearing pad details.

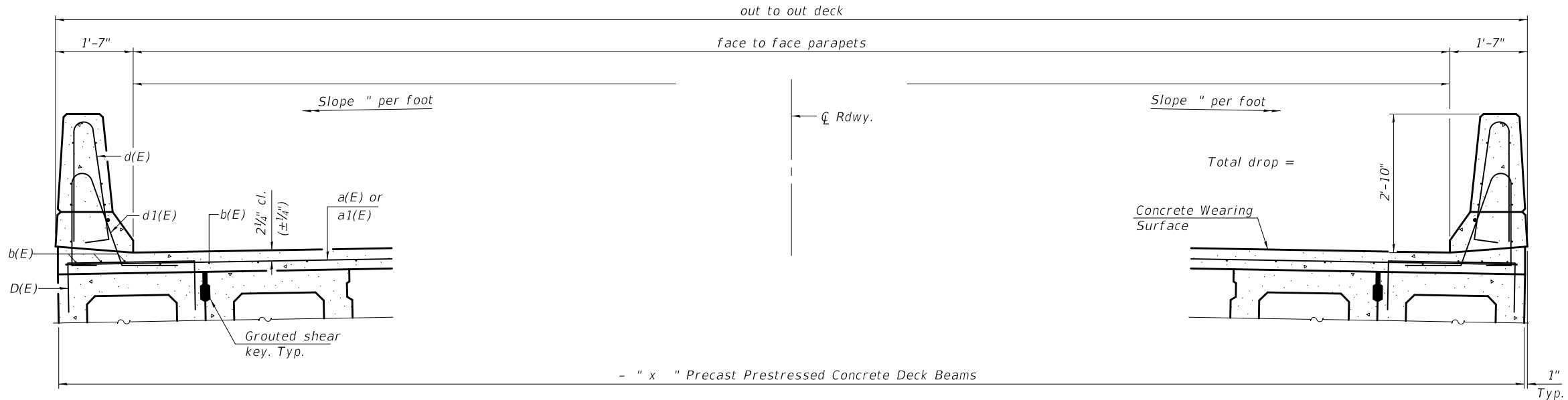
PDS-S-F-L

2-17-2017

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	PLOT DATE =	CHECKED -	REVISED -					ILLINOIS FED. AID PROJECT		



PLAN



CROSS SECTION  
(Looking )

Notes:  
See sheet of for Superstructure Details and Bill of Material.  
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.  
Spacing of a(E) and a1(E) bars shall be measured along the  $\phi$  of structure.

MINIMUM BAR LAP  
#4 bar = 2'-2"

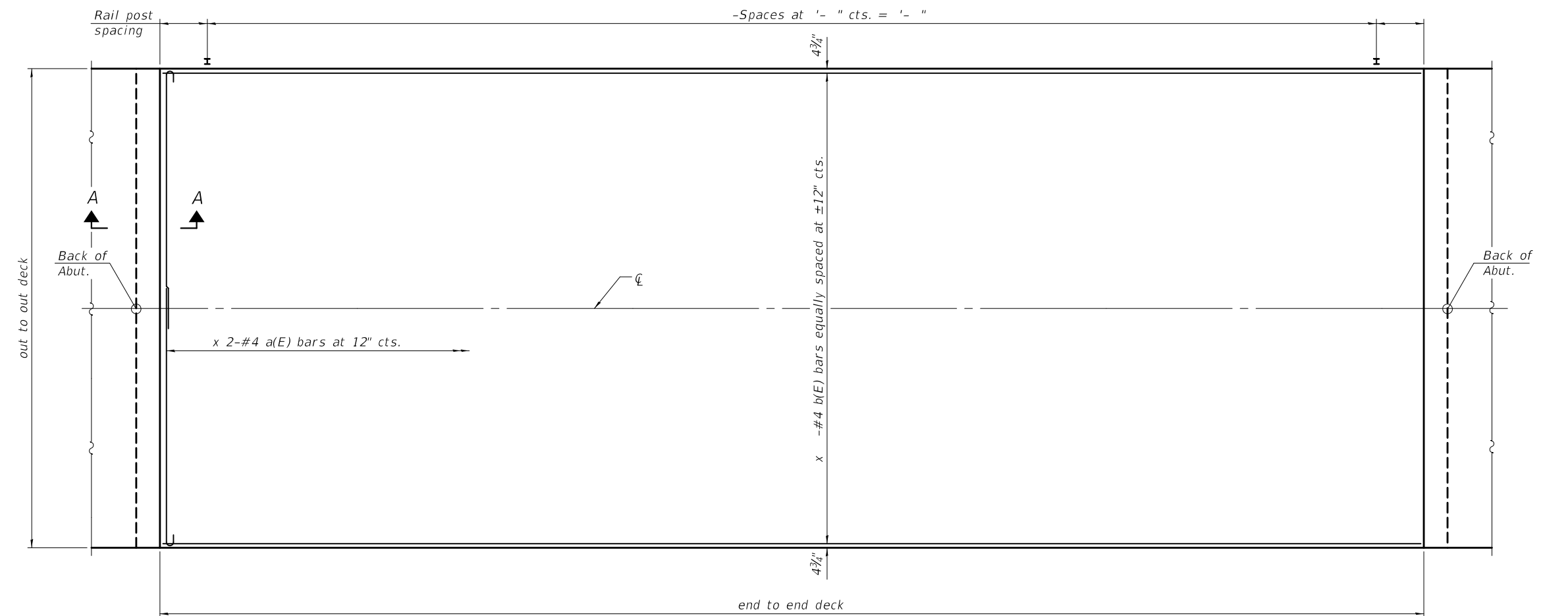
SECTION A-A

(Dimensions are at Rt.  $\angle$ 's)  
Notes:  
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.  
See sheet of for fabric bearing pad details.

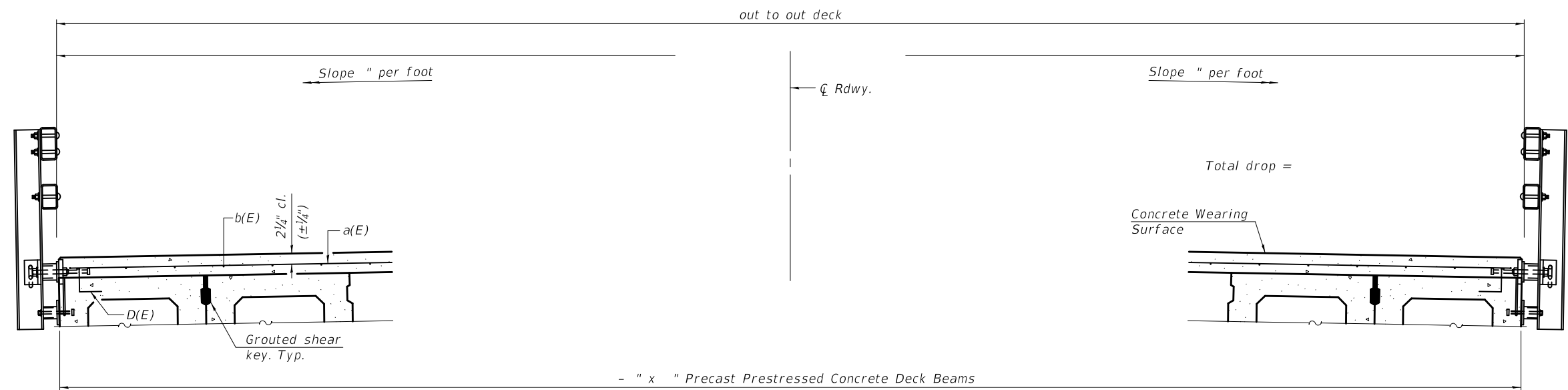
PDS-S-F-R

2-17-2017

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	PLOT SCALE =	DRAWN -	REVISED -					CONTRACT NO.		
	PLOT DATE =	CHECKED -	REVISED -					ILLINOIS FED. AID PROJECT		



PLAN



CROSS SECTION  
(Looking )

Notes:  
See sheet of for Superstructure Details and Bill of Material.  
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.

MINIMUM BAR LAP  
#4 bar = 2'-2"

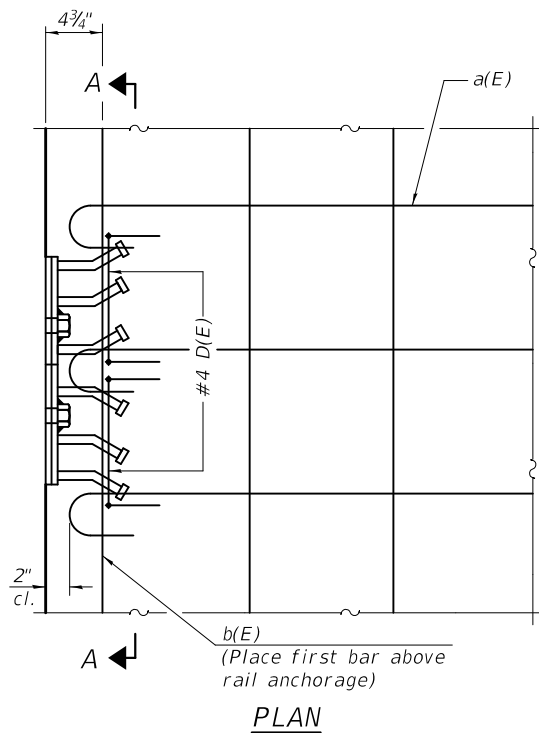
SECTION A-A

Notes:  
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.  
See sheet of for fabric bearing pad details.

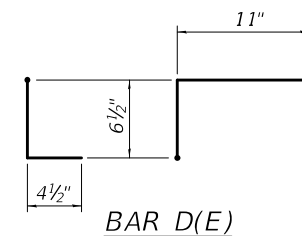
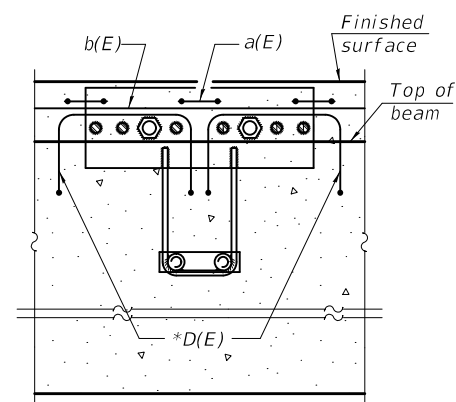
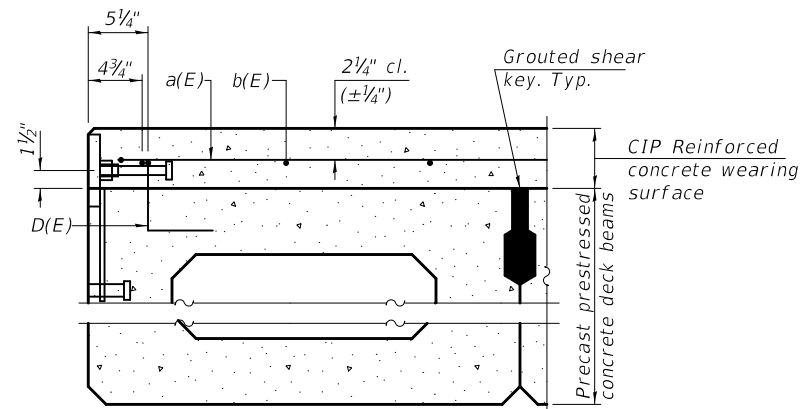
PDS-S-R34-0

2-17-2017

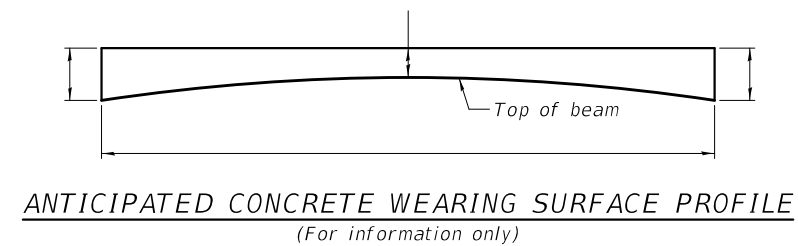
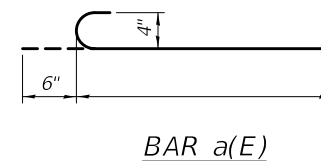
FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
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	PLOT SCALE =	DRAWN -	REVISED -										
	PLOT DATE =	CHECKED -	REVISED -										
							CONTRACT NO.						
							ILLINOIS FED. AID PROJECT						



Notes:  
Formwork necessary for the wearing surface may be secured utilizing the bottom rail anchorage inserts and/or additional inserts cast into the beam.



\* Place 2-#4 D(E) bars in beam at each post location as shown. D(E) bar included in cost of beam.



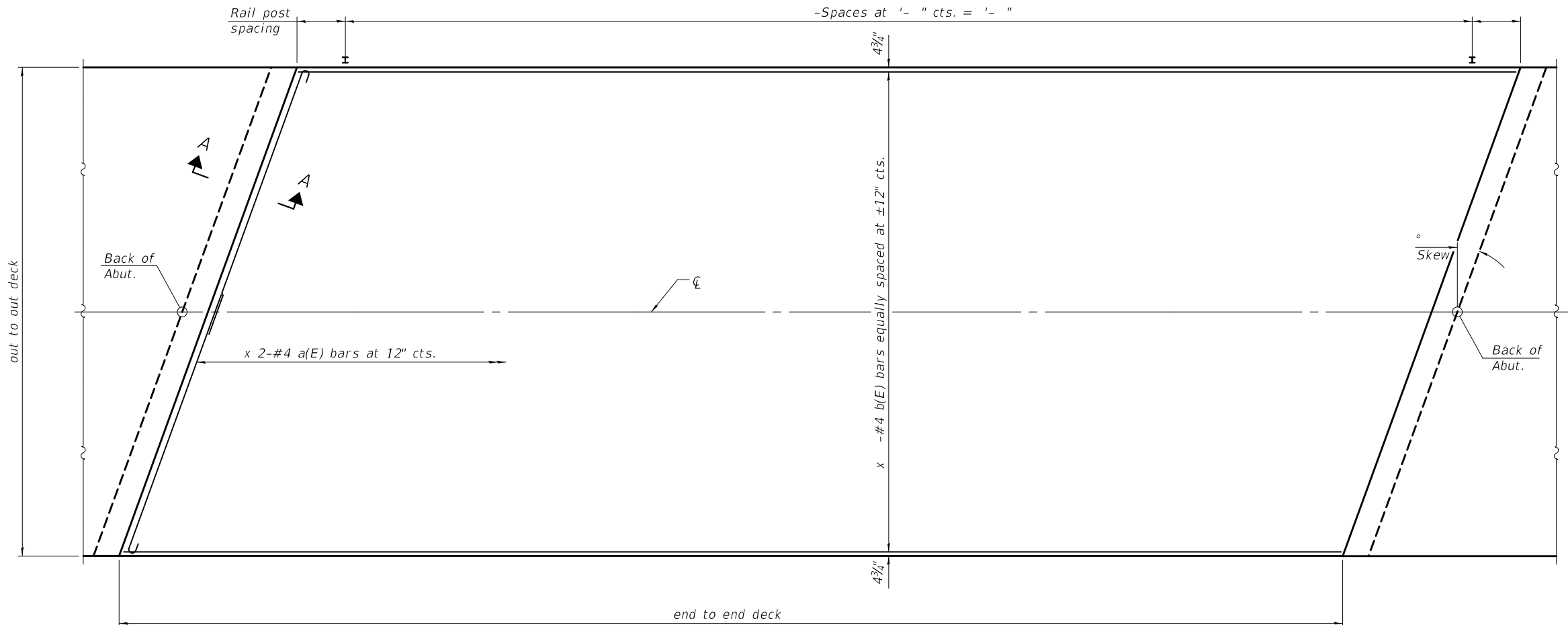
**SUPERSTRUCTURE  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)		#4		
b(E)		#4		
Reinforcement Bars, Epoxy Coated		Pound		
Concrete Wearing Surface, 5"		Sq. Yd.		

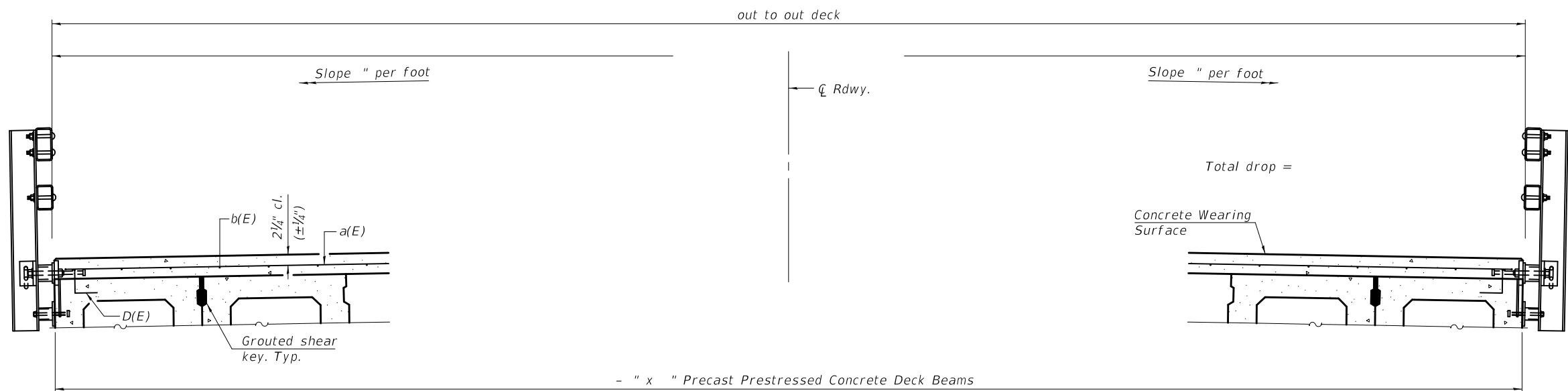
Bars indicated thus 1 x -#4 etc. indicates 1 line of bars with lengths per line.

PDS-S-R34-D 2-17-2017

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE DETAILS STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -							
	PLOT SCALE =	DRAWN -	REVISED -					CONTRACT NO.		
	PLOT DATE =	CHECKED -	REVISED -					ILLINOIS FED. AID PROJECT		



PLAN



CROSS SECTION  
(Looking )

Notes:  
See sheet of for Superstructure Details and Bill of Material.  
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.  
Spacing of a(E) bars shall be measured along the  $\phi$  of structure.

MINIMUM BAR LAP  
#4 bar = 2'-2"

SECTION A-A

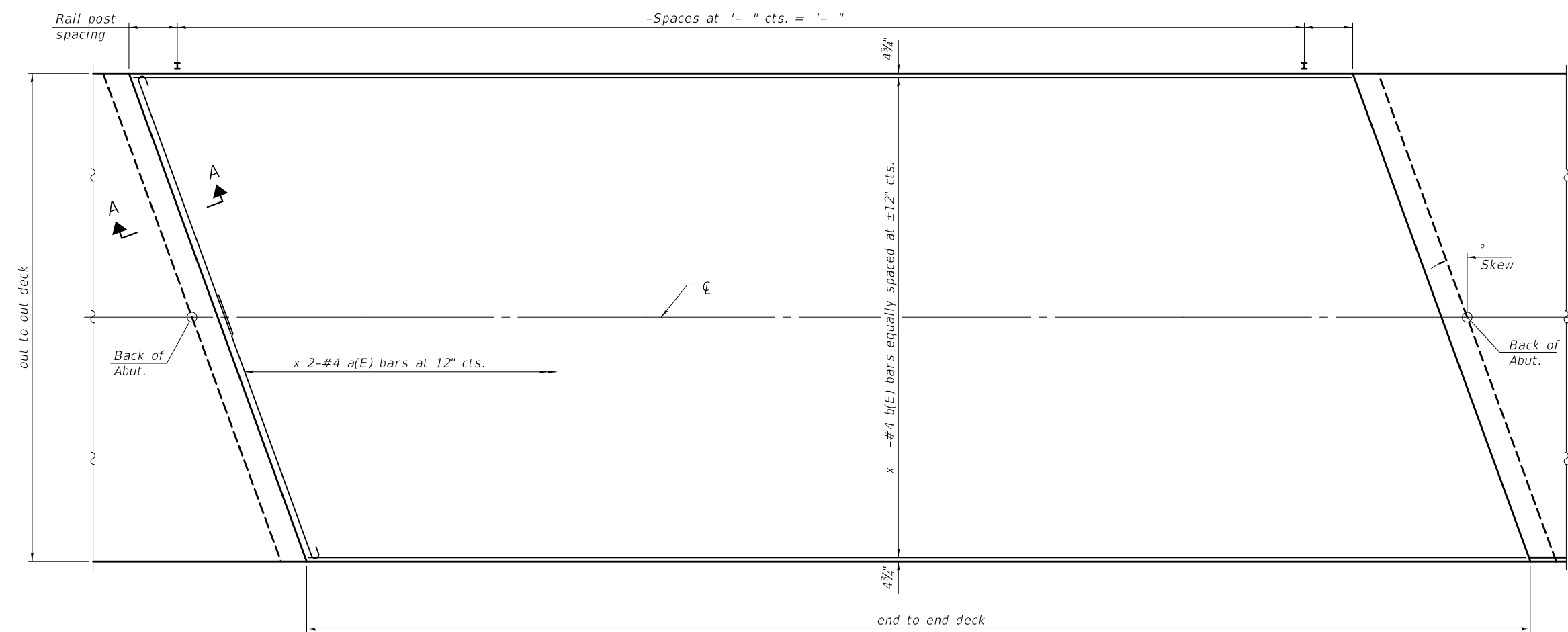
(Dimensions are at Rt. L's)

Notes:  
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.  
See sheet of for fabric bearing pad details.

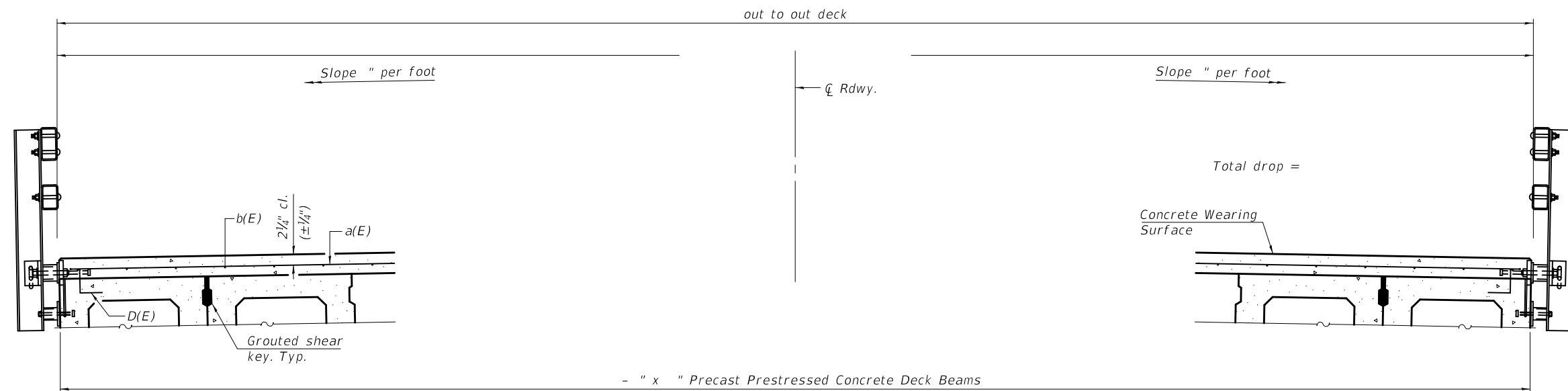
PDS-S-R34-L

2-17-2017

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -							
	PLOT SCALE =	DRAWN -	REVISED -					CONTRACT NO.		
	PLOT DATE =	CHECKED -	REVISED -					ILLINOIS FED. AID PROJECT		



PLAN



CROSS SECTION  
(Looking )

Notes:  
See sheet of for Superstructure Details and Bill of Material.  
Bars indicated thus 20 x 2-#4 etc. indicates 20 lines of bars with 2 lengths per line.  
Spacing of a(E) bars shall be measured along the CL of structure.

MINIMUM BAR LAP  
#4 bar = 2'-2"

SECTION A-A  
(Dimensions are at Rt. L's)

Notes:  
All concrete wearing surfaces shall be placed prior to casting a backwall and/or approach slab.  
See sheet of for fabric bearing pad details.

PDS-S-R34-R 2-17-2017

FILE NAME =	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUPERSTRUCTURE STRUCTURE NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -	REVISED -							
	PLOT SCALE =	DRAWN -	REVISED -							
	PLOT DATE =	CHECKED -	REVISED -							
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